Internet Managed Thermostat (IMT) Configuration Guide

(IMT350c and IMT350w)

Release 1.0

PROLIPHIX

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Preface

The *Internet Managed Thermostat Configuration Guide* describes how to control and configure your IMT350 thermostat using a standard web browser such as Firefox or Internet Explorer.

Audience

This guide is intended for managers and/or facilities managers or those responsible for managing multiple devices remotely in small or medium size buildings, multiple buildings, or corporate environments.

As a reader of this guide, you should be familiar with the use of an Internet browser (for example Internet Explorer or Firefox) and have a working knowledge of general data networking principles. You should have prior experience with establishing a local area network (LAN) in either a home or office.

Conventions

This guide uses the following conventions, when applicable:

Description	Convention and Example
Commands or keywords, file or path names	**Boldface** font
Variable parameters for which you supply values	<*courier italics*>
Options and arguments for which you supply values	[ ]
Information that the user must enter	**`Courier Bold`** font
Screen messages or system output	`Courier Regular` font
Selecting a menu item	**Menu => Option**
Book titles, new terms, and emphasized text	*Italics*

Note *Additional information that may apply to the subject text.*

Caution *Proceed carefully to avoid possible equipment damage or data loss.*

Warning *Proceed carefully to avoid possible personal injury.*

Tip *Provide helpful suggestions.*

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Customers can obtain product documentation on our web site at http://www.proliphix.com/.

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Chapter 1

Overview

This chapter gives an overview of the Proliphix Internet Managed Thermostats (IMT) Series Network Thermostats, as well as how to access the IMT350 using a Web browser.

The IMT350 series of thermostats are powered by either Proliphix Ethernet Power Adapters, Power over Ethernet, or via 24Vac from the HVAC system, and include the following features:

Table 1-1 IMT350 Features

Model	Wired Ethernet	802.11 b/g wireless	Humidity Sensing	Aux Relays (2)	Power Method(s)
IMT350c	X		X	X	■ EPA ■ PoE ■ HVAC
IMT350w		X	X	X	■ HPA ■ HVAC

DHCP Assigned IP Addresses

The IMT350c and IMT350w thermostat ship directly from the factory enabled to perform as a Dynamic Host Configuration Protocol (DHCP) client. DHCP is an established standard used to assign IP addresses automatically after each network device is inserted into the network or when the device experiences a power cycle. DHCP allows devices on your local network to receive their Internet Protocol (IP) addresses automatically from an attached DHCP server typically located within a local router.

If your file server or router supports DHCP, then your Proliphix thermostat automatically retrieves an IP Address, Gateway Address, Subnet Mask, and DNS server address from the DHCP server on your network.

Note

Proliphix strongly recommends that a DHCP server be installed and operational in your network prior to installing the thermostat.
If a DHCP server is unavailable on your network, your thermostat will default to the 169.254.111.111 IP address. Note that this address is not unique to your network if more than one thermostat is installed on a network without a DHCP server. That is, there will be multiple thermostats on the network with the same IP address (i.e. 169.254.111.111). Addressing conflicts will exist and most of the thermostats will be inaccessible. You can use the lcd interface to set the IMT350 to a static IP address if no DHCP server is available.

Connecting the Thermostat to the Local Network

This section describes how to connect your IMT350c and IMT350w thermostats to your local data network. This connection enables you to conveniently and efficiently configure your thermostat using a browser on your laptop or desktop personal computer. If a broadband connection is available on your local network, you can also remotely manage and configure your thermostat via the Internet.

To connect the thermostat to your local network:

- For the IMT350c, use a standard Ethernet patch cable and complete the connection of your thermostat(s) to the local switch or router. Your thermostat(s) should automatically communicate with the local DHCP server and be assigned a unique IP address.
- For the IMT350w, use the lcd interface and configure the wireless settings to match your local wireless network.

Remote Management

You can manage the IMT350c and IMT350w thermostats using a web browser on a local area network (LAN) or remotely though the Internet after proper authentication at the Proliphix Web Site (www.proliphix.com).

Determining the IMT350 IP Address

Your Proliphix IMT350 ships from the factory capable to support the DHCP mode for assigning an IP address to your thermostat. See the DHCP Assigned IP Addresses (page 1-1) for more information.

Before you access and control your Proliphix IMT350 through either the lcd screen or more comprehensively through the Web browser, you must know the IP address of the thermostat.

To retrieve the IP address on the lcd screen on the front of the thermostat:

1 Press the Proliphix logo on the bottom right side of the lcd screen.

2 Press **Network**.

3 Press **IP Address**.

The IP Address screen displays the **Address Method** and **URL (IP Address)**.

Accessing the Web Interface

To access the initial Web page of the thermostat, enter the unique IP address initially assigned via DHCP in your browser window. For example:

```
http://192.168.0.247
```

Where 192.168.0.247 is a unique IP address initially assigned via DHCP.

Most of the Web pages conform to a standard format which is maintained for both local and remote thermostat access. A banner at the top of each page contains the following information for each thermostat:

- Current date and time
- Host name of the thermostat
- Model number

Each thermostat page also includes tabs which enable direct access to all other Web pages on the thermostat. The Web browser displays each page in a table format. Each feature table is organized by rows of functions, in a left to right direction as follows:

- Field name
- Function status
- Function control (text boxes and drop-down selections)

Logging In to the Thermostat

The IMT350 Series thermostats require password authentication prior to accessing the Web pages that enable you to control or manage the thermostats. The username and password is as follows:

Username: **admin**

Password: **admin** (default)

Tip *You can change each of these passwords within each account after the initial authentication. For more information, see Password Settings (page 2-44).*

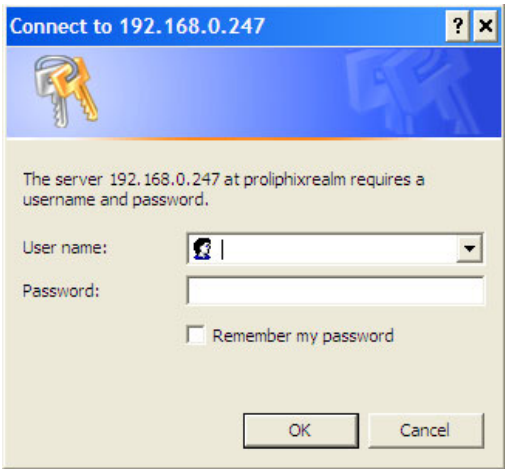
To log in to the thermostat and access the Web pages:

1. Open a Web browser.
2. Enter the IP address of the thermostat. For example:

   `http://192.168.0.247`

   The login window appears. (See Figure 1-1.) Proper authentication is required before you can access any other thermostat Web pages.

Figure 1-1 Administrator Authentication Window



3. Enter the default username **admin** and password **admin** for the admin account.

Note *You can change passwords for each account using the Password Settings. See Password Settings (page 2-44).*

4 Click **OK**.

The default **Control - HVAC** page appears. See Figure 2-1 on page 2-2.

Note

*In each Web page, you must click **Submit** to apply all changes made in the Control column. Click **Refresh** to update the status.*

Continue with the Control Page (page 2-2).

Chapter 2

Configuring the Thermostat Using the Web Interface

This chapter describes how to configure and monitor the thermostat through the web browser using the IMT350 Web interface.

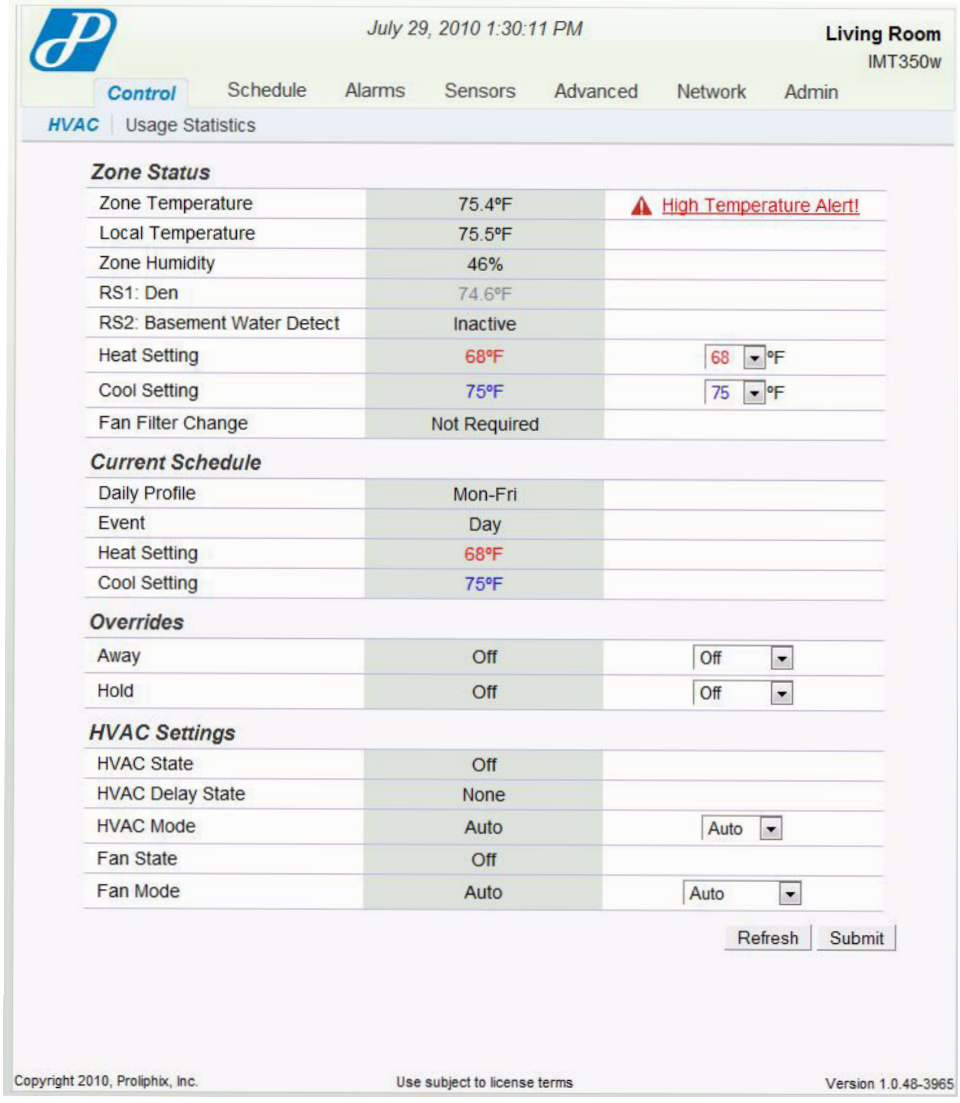
Control Page

The **Control** page displays tabs for the HVAC, AUX Relays, and Usage Statistics pages.

HVAC

The **Control - HVAC** page displays the HVAC zone status, schedule, and settings, for example.

Figure 2-1 Control - HVAC Page



Use Table 2-1 to configure the **Control - HVAC** fields.

Table 2-1 Control - HVAC Field Descriptions

Field	Description
Temperature	
Zone Temperature	Displays the current temperature of the zone if temperature averaging is disabled. Average temperature of any combination of **Local, Remote Sensor #1 (RS #1), or Remote Sensor #2 (RS #2)** if temperature averaging is enabled. (See Advanced Page (page 2-24).) **In a range of -30°F(-34°C) to 199°F(95°C)** Also displays the current status of the Zone Temperature alarm. If an alarm occurs, you must repair the condition which caused the alarm before resetting the alarm. (See Alarms Page (page 2-17).) ■ This field is blank if no Zone Temperature alarm exists. ■ Low Temperature Alert! – The temperature monitored within the thermostat has dropped below the pre-set temperature threshold. ■ High Temperature Alert! – The temperature monitored within the thermostat has risen above the pre-set temperature threshold.
Local Temperature	Displays the current temperature of the local sensor. This field is disabled if the local thermostat sensor is not included in temperature averaging. **In a range of 40°F(4.5°C) to 110°F(43.5°C)**
Zone Humidity	Displays the current Zone Humidity. **In a range of 0% to 95%** ■ Low Humidity Alert! – The humidity level monitored within the thermostat has dropped below the pre-set humidity threshold. ■ High Humidity Alert! – The humidity level monitored within the thermostat has risen above the pre-set humidity threshold.
RS1:	Sets the current temperature of RS1.
RS2:	Sets the current temperature of RS2.
Heat Setting	Displays the current temperature programmed for the heating system. This field is disabled if the HVAC mode is set to Cool or Off. (See HVAC Mode (page 2-5).) This field is not visible if the thermostat is configured to be a cool-only controlling device. (See Advanced Page (page 2-24).) To modify this field, use the drop-down menu to select a **Heat Setting**. **40°F(4.5°C) to 110°F(43.5°C)**

Table 2-1 Control - HVAC Field Descriptions (Continued)

Field	Description
Cool Setting	Displays the current temperature programmed for the cooling (A/C) system. This field is disabled if the HVAC mode is set to Heat or Off. (See HVAC Mode (page 2-5).) This field is not visible if the thermostat is configured to be a heat-only controlling device. (See Advanced Page (page 2-24).) To modify this field, use the drop-down menu to select a **Cool Setting**. **40°F(4.5°C) to 110°F(43.5°C)**
Fan Filter Change	Displays a reminder that the time interval between HVAC filter changes has expired. The air filter(s) should be cleaned or replaced. You should change the filter and then reset this timer. (See Alarms Page (page 2-17).) ■ This field is left blank if no filter change is required. ■ **Required!** – The HVAC filters require changing or cleaning.
Current Schedule	
Daily Profile	Displays the current active scheduled **Profile**.
Event	Displays the current active **Event**. ■ Morning ■ Day ■ Evening ■ Night
Heat Setting	Displays the current Heat temperature setting as set within the current schedule. **40°F(4.5°C) to 110°F(43.5°C)**
Cool Setting	Displays the current Cool temperature setting as set within the current schedule. **40°F(4.5°C) to 110°F(43.5°C)**
Overrides	
Away	Displays the current state for both the **Heat** and **Cool Setting**. To "Away" the current settings indefinitely or for a prescribed period of time as set on the Override Settings (page 2-29), use the drop-down menu and choose: ■ **Enabled** – Hold mode is enabled. ■ **Off (default) – Away mode is disabled.**
Hold	Displays the current state for both the **Heat** and **Cool Setting**. To "Hold" the current settings indefinitely or for a prescribed period of time as set on the Override Settings (page 2-29), use the drop-down menu and choose: ■ **Enabled** – Hold mode is enabled. ■ **Off** (default) – Hold mode is disabled. **Note:** When **Occupancy Override** is visible, it displays the current state of an active "Away" button activation.

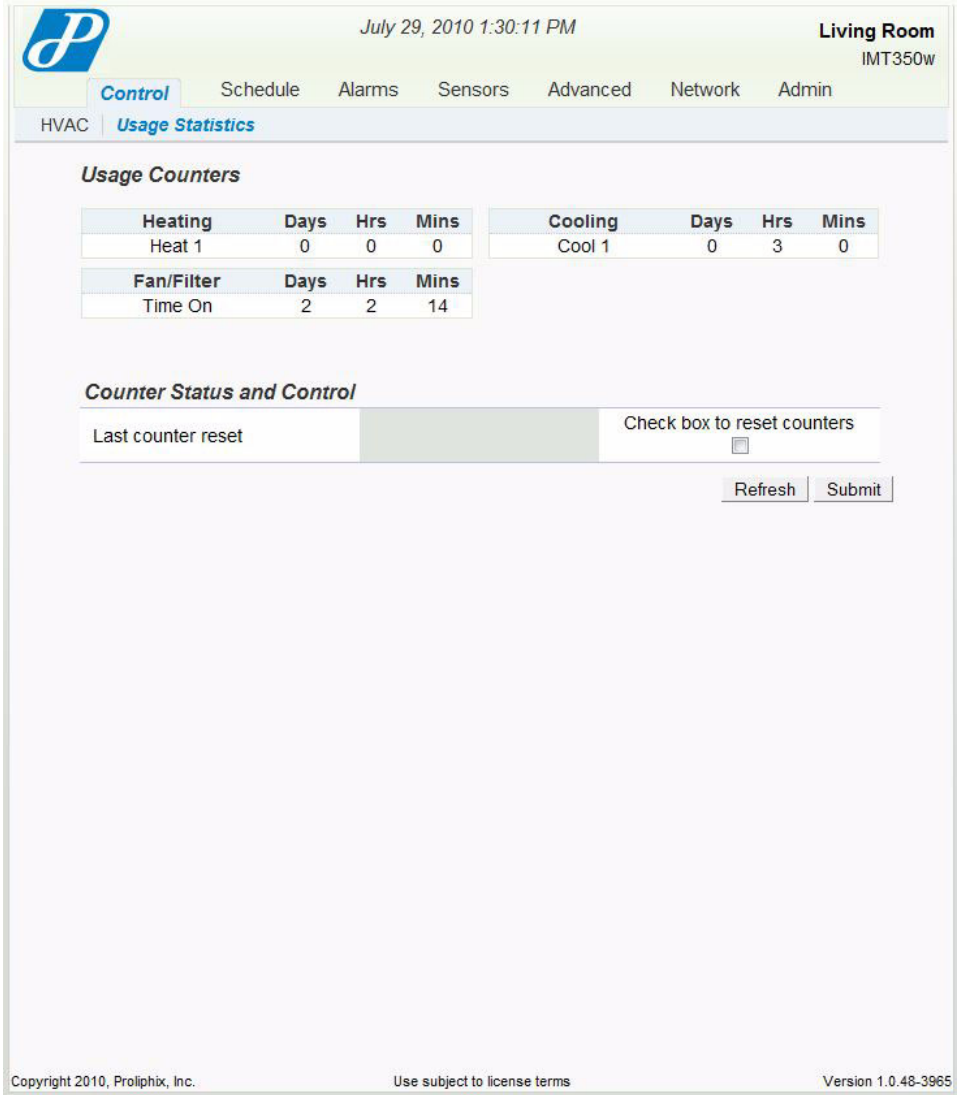
Table 2-1 Control - HVAC Field Descriptions (Continued)

Field	Description
HVAC Settings	
HVAC State	Displays the current state of the heating or cooling system. If a state change is made while viewing this page, click **Refresh** to update the status. ■ **Heat** – First stage heat is actively heating. ■ **Aux Ht** – First stage, second stage, and auxiliary heat are actively heating. (Heat Pump) ■ **Emergency Ht -** Emergency heat source is heating. ■ **Cool** – First stage A/C is actively cooling. ■ **Off** – Neither the heating system or cooling system is active (i.e. on).
HVAC Delay State	Displays the HVAC delay state. Delay can be in effect if the interstage delay is set or if the compressor has been turned off within the last *n* minutes, where *n* is the set time from the Compressor Delay on the Advanced/HVAC page.
HVAC Mode	Displays and controls the current mode setting for the HVAC system. The thermostat can be configured to control the heat system only, cool system only, automatically change over between heating and cooling systems, or control neither system. ■ **Off** – The thermostat is disabled from controlling either the heating or cooling system. ■ **Heat** – Heating system only. ■ **Cool** – Cooling system only. ■ **Auto** – Automatic changeover between heating and cooling systems. ■ **Emergency Heat -** Forces the activation of an alternative heat source for heat pumps.
Fan State	Displays the current state of the HVAC fan. ■ **Off** – The operation of the fan is off. ■ **On** – The fan is operating.
Fan Mode	Displays and controls the current state setting for the HVAC fan. ■ **Auto** – Heating or cooling system controls the operation of the fan. ■ **On** – User forces the fan to the on state independent of the operation of the HVAC system. ■ **Scheduled** – The operation of the fan adheres to a schedule as defined by the user on the schedule pages with the schedule profile definition. *Note: When in Scheduled mode, the fan continues to work in Auto mode as well.*

Usage Statistics

The **Control - Usage Statistics** page displays the usage information.

Figure 2-2 Control - Usage Statistics Page



Use Table 2-2 to configure the **Control - Usage Statistics** fields.

Table 2-2 Control - Usage Statistics Field Descriptions

Field	Description
Usage Counters	
Heating	Displays thee **Heat1**relay minute activity counter. The Admin account user can reset this field by checking the **Last counter reset** box.

Field	Description
Fan/Filter	Displays the **Fan/Filter** relay minute activity counter, which is the number of days, hours, and minutes since the **Last counter reset** box was checked and submitted. The Admin account user can reset this field by checking the **Last counter reset** box.
Cooling	Displays the **Cool 1** relay minute activity counter, which is the number of days, hours, and minutes since the **Last counter reset** box was checked. The Admin account user can reset this field by checking the **Last counter** reset box.
Counter Status and Control	
Last counter reset	Check to return the Usage Counters to zero value (except Fan/Filter) after clicking Submit.

Schedules Page

The **Schedules** page displays tabs for the HVAC pages.

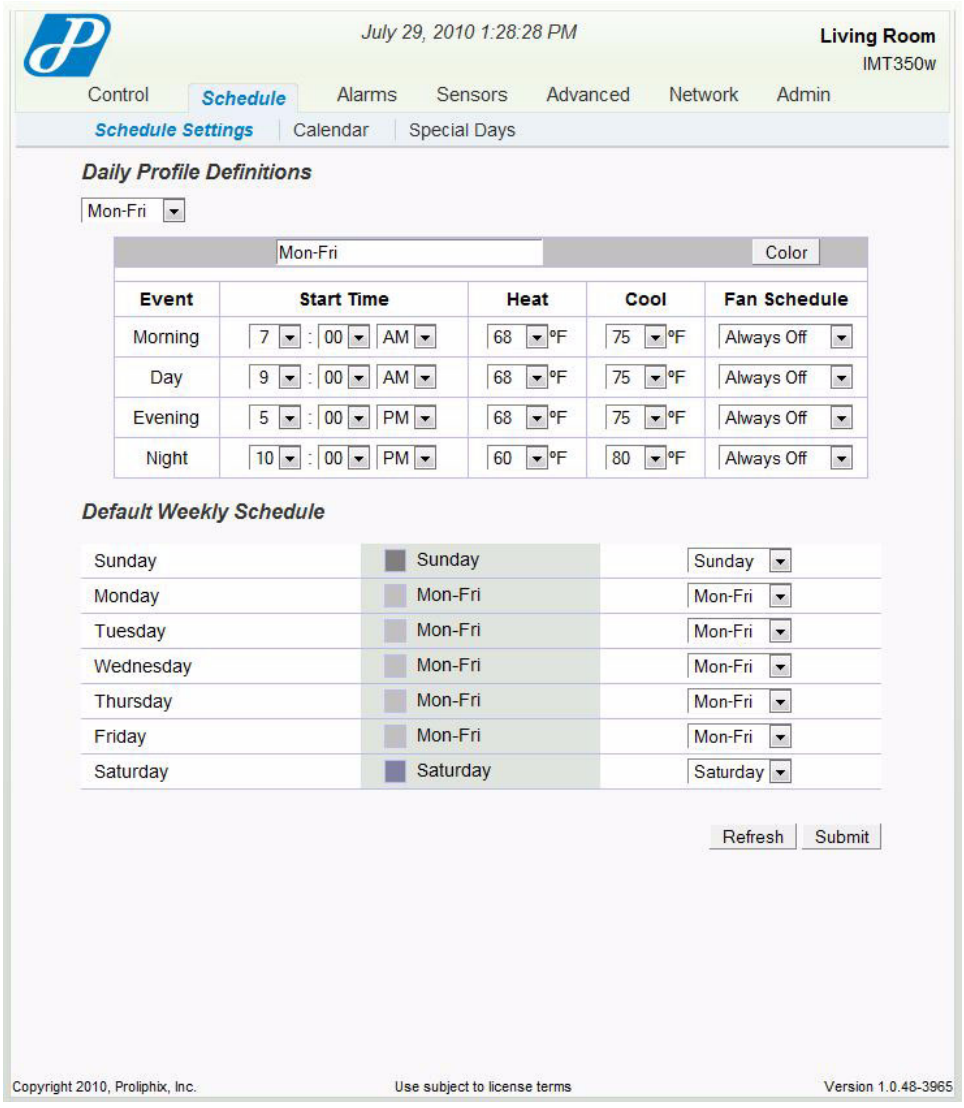
HVAC

The **Schedules - HVAC** settings page displays the schedule information.

Schedule Settings

The **Schedule Settings** page displays the default daily **Profiles** and weekly schedule.

Figure 2-3 Schedules - HVAC - Schedule Settings Page



Daily Profile Definitions

The thermostat scheduling feature is organized in a hierarchy. You use **Profiles** (up to 7) to classify the types of days that are used in the schedule. Each **Profile** is divided into four events, each of which supports temperature settings for both heating and cooling, and fan scheduling to provide periodic air flow.

Each **Profile** supports the following four non-overlapping events of time (within 24 hour period) in which you can independently specify heat, cool, and fan schedules.

- **Morning**
- **Day**
- **Evening**
- **Night**

Figure 2-3 on page 2-8 displays the **Profile** table. The Web page displays the **Event** period and **Start Time** within each row of the table. The Web page also displays the heat and cool settings for each **Event** period in each **Profile**. Although the thermostat ships from the factory with pre-set **Event** settings, you can change these settings by selecting the appropriate definition from the drop-down menu.

Use Table 2-3 to configure the **Daily Profile Definitions**.

Table 2-3 Schedules-Daily Profile Definitions Field Descriptions

Field	Description
Daily Profile Definitions	
Profile Name	Use the drop-down menu to select the appropriate profile. The profile name displays in the header. Click **Color** and select a color to color-code the profile for easy recognition.
Event	Displays one of four time periods of the 24-hour day.
Start Time	Use the drop-down menu to modify the time period in 5-minute increments. Includes AM/PM indicator.
Heat	Use the drop-down menu to select a heat temperature setback setting between **40°F(4.5°C) to 110°F(43.5°C)**
Cool	Use the drop-down menu to select a cool temperature setback setting between **40°F(4.5°C) to 110°F(43.5°C)**

Table 2-3 Schedules-Daily Profile Definitions Field Descriptions (Continued)

Field	Description
Fan Schedule	Select the time in minutes for each hour of the **Event** in which the fan will be **On**. The schedule begins on the hour and advances for the duration specified. Note that within the hour of each **Event** but outside the schedule interval, the fan reverts to AUTO mode to ensure proper operation for either a heating or cooling call to the HVAC system. Select one of the following options: ■ **Always Off** ■ **5 On / 15 Off** ■ **10 On / 10 Off** ■ **15 On / 5 Off** ■ **Always On**

Default Weekly Schedule

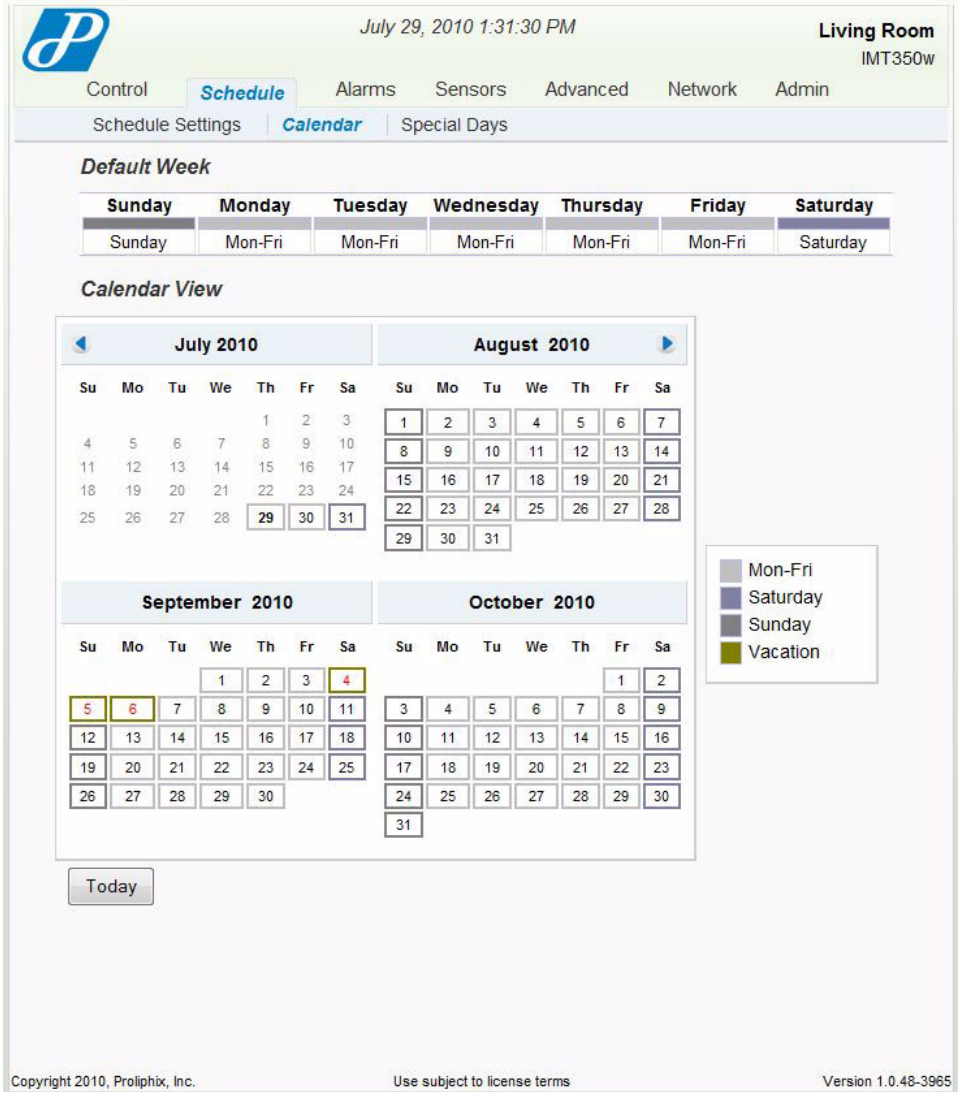
In Figure 2-3 on page 2-8, the **Default Weekly Schedule** table provides a template that you can use to apply the **Profiles** to each day of the week. The Web page applies this weekly template to every week in each month that is visible in the **Calendar View** at the bottom of the Calendar (page 2-10) page.

To edit the **Default Weekly Schedule**, use the drop-down menu and select the appropriate **Profile**.

Calendar

The **Calendar View** table displays the **Profile** settings for each day of the month.

Figure 2-4 Schedules - HVAC - Calendar Page



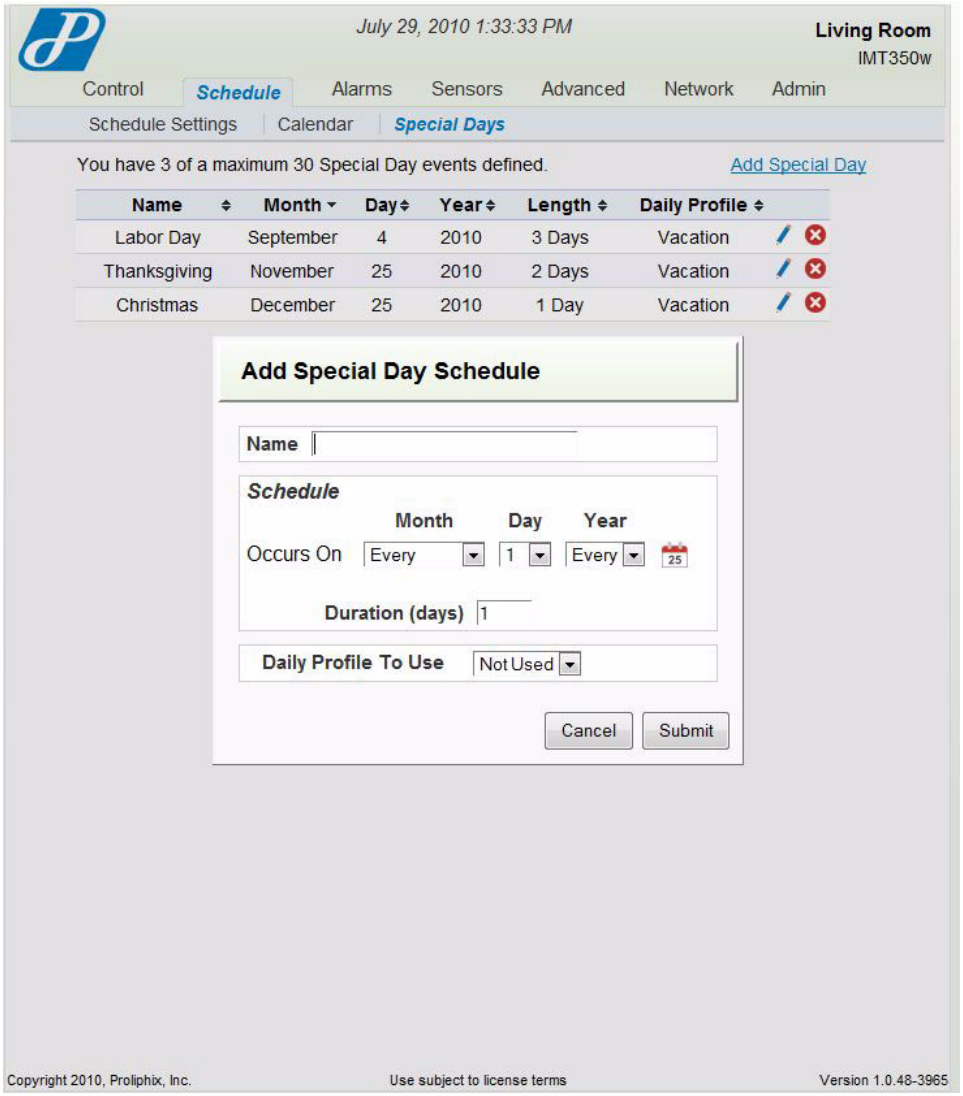
You can modify any day in the **Calendar View** table using either of the following methods:

- Click the **date** within the calendar and continue with Adding Special Days (page 2-12).
- Click Special Days and continue with Special Days (page 2-11).

Special Days

Special Days entries are organized as rows in the **Special Days** table. The Web page supports 30 **Special Days** table entries, each comprised of a start date entered in the **Month, Day,** and **Year** fields. In each row, you can enter one or more days as a duration for that entry. Durations cannot exceed 60 days.

Figure 2-5 Schedule - HVAC - Special Days Page

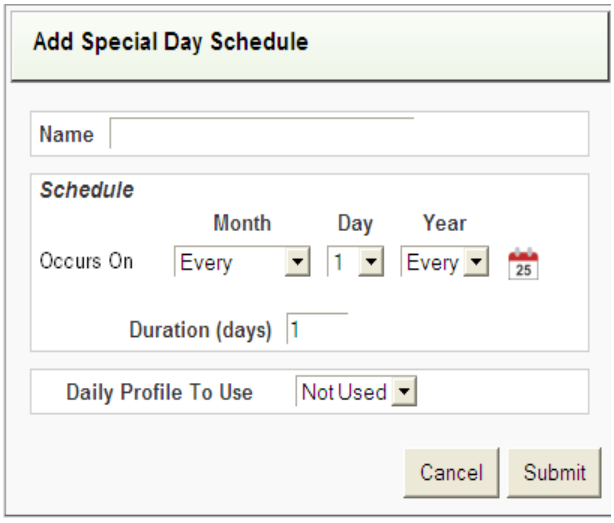


To add a special day(s), click **Add Special Day** and continue with Adding Special Days.

Adding Special Days

From the **Add Special Days Schedule** page, you can select any day(s) of the current or future month, modify the information, and assign a **Profile** different from what is specified in the Default Weekly Schedule (page 2-10).

Figure 2-6 Add Special Days Schedule



To add a special day(s):

1. Enter a **Name** for the special day(s).
2. Specify the **Month, Day,** and **Year**.
3. Enter the appropriate day(s) duration.
4. Select the appropriate **Daily Profile to Use**.
5. Click **Submit**.

You can enter this information in the **Special Days** table using either of the following methods:

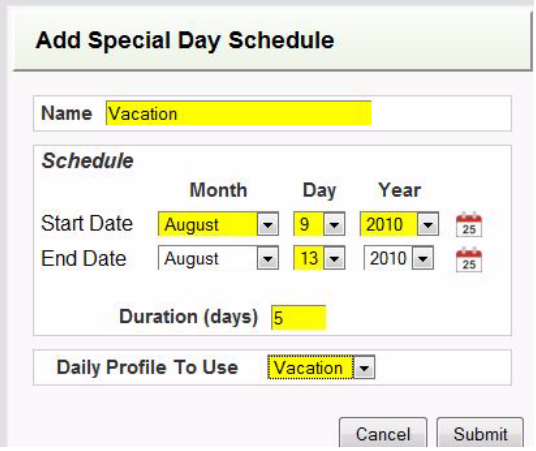
- Configure the Profile (see Daily Profile Definitions (page 2-9)) to reflect the desired settings. Click directly on the **date** on the Calendar. The **Add Special Day Schedule** page appears and automatically populates the **Start Date** and **End Date**. **One** day is the default duration, but you can change this field to any number of days less than the 60 day maximum. Modify the fields as necessary. Click **Submit**. The **Special Day** displays on the **Special Days** table and Calendar.

- Configure the Profile (see Daily Profile Definitions (page 2-9)) to reflect the desired settings. From the Special Days page, click **Add Special Days**. The **Add Special Days Schedule** appears. Modify the fields as necessary. Click **Submit**. The **Special Day** displays on the **Special Days** table and Calendar.

Example

Figure 2-7 shows an example of adding additional **Special Days** to the thermostat schedule of a week-long period from August 9, 2010 through August 13, 2010.

Figure 2-7 Special Days - Example A

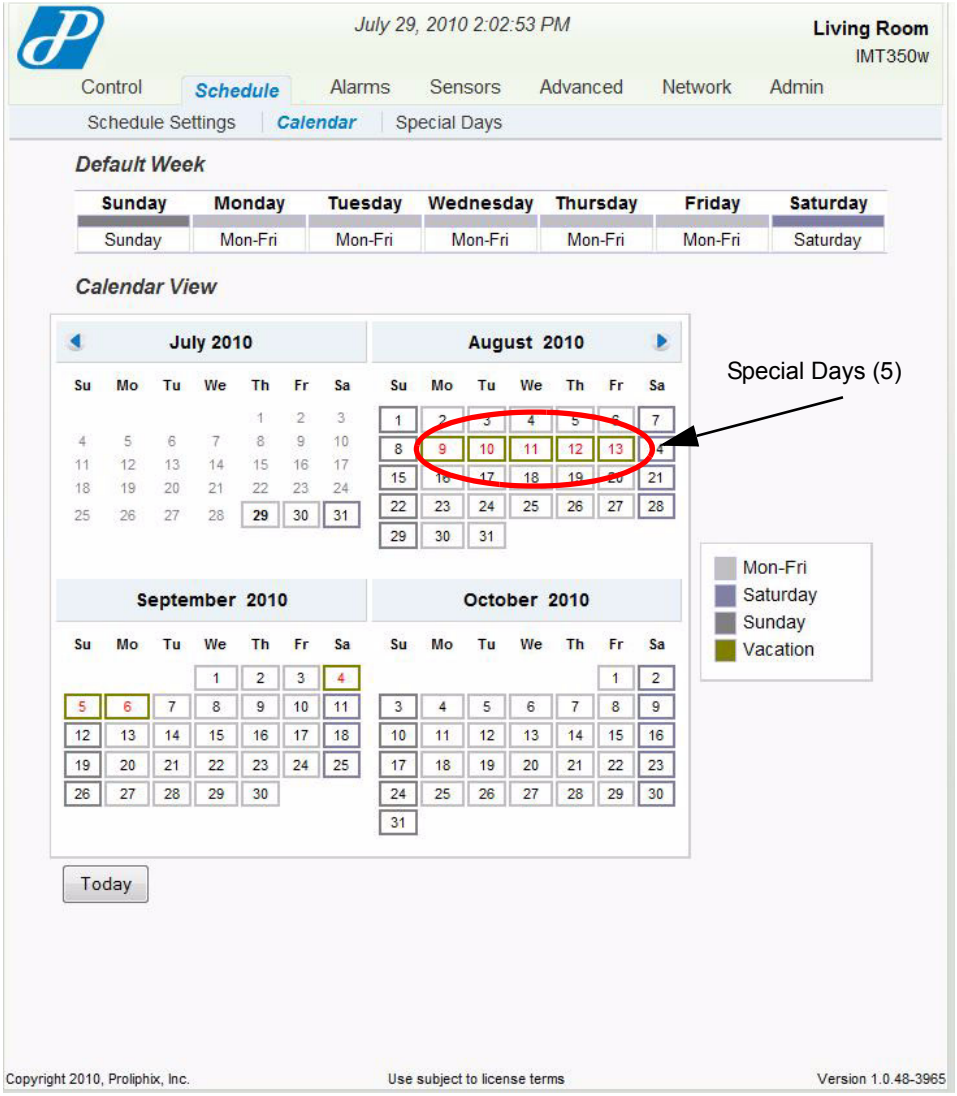


1. From the Special Days page (see Special Days (page 2-11)), click **Add Special Day**.
2. Enter a **Name** and **Schedule** information for the special day(s).
3. Select the appropriate **Daily Profile to Use**.
4. Click **Submit**.

The **Special Day** entry (for 5 days total) displays on the Special Days and Calendar pages.

Figure 2-8 Special Days - Example B

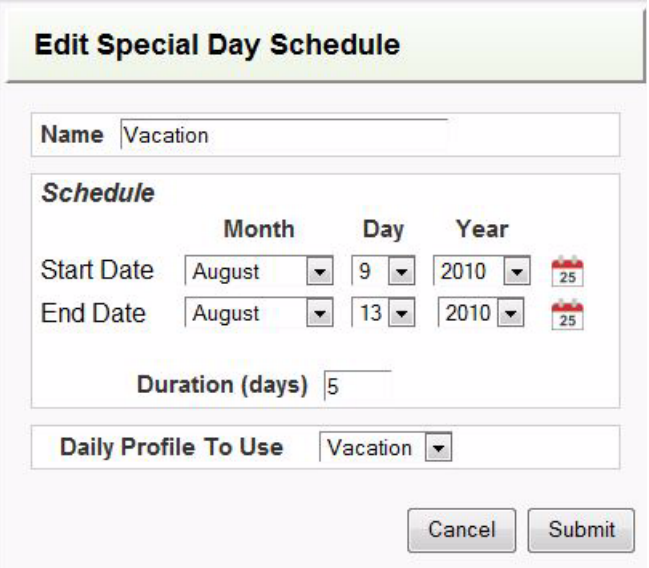
Figure 2-9 Special Days - Example C



Modifying Special Days

1 From the Special Days page, click the pencil icon on the appropriate line to display the **Edit Special Day Schedule** page.

Figure 2-10 Edit Special Day Schedule



2 Edit the fields as necessary.

3 Click **Submit**.

Deleting Special Days

1 From the Special Days page, click the delete icon on the appropriate line.

A message displays confirming you want to delete the special day(s).

2 Click **OK to delete** the special day(s) or **Cancel** to cancel the operation.

Alarms Page

The Alarms page displays tabs for the **Zone** and **Wired Sensors** pages.

Zone

The **Alarms - Zone** page displays the zone temperature, humidity, and filter change reminder.

Figure 2-11 Alarms - Zone Page

Use Table 2-4 to configure the **Alarms - Zone** page fields.

Table 2-4 Alarms - Zone Field Descriptions

Field	Description
Zone Temperature Alarms	
Low Temperature Limit	Select a value or **Disabled** to indicate the low temperature threshold detection status. The value set by this parameter is monitored by the thermostat and compared against the current **Zone Temperature**. If the current **Zone Temperature** falls below this value, an alarm condition is set and the status is displayed on the HVAC (page 2-2) page. ■ **Disabled** (default) – No low temperature limit is set. ■ **-30°F(-34.5°C) to 200°F(93°C)** This is a major (red) alarm condition.
Present for	Enter how long the condition must be in effect before the alarm is triggered. Note that the default is 0 minutes and the maximum time allowed is 240 minutes.
Alarm generated at	Day and time the alarm was generated.
High Temperature Limit	Select a value or **Disabled** to indicate the high temperature threshold detection status. The value set by this parameter is monitored by the thermostat and compared against the current **Zone Temperature**. If the current **Zone Temperature** rises above this value, an alarm condition is set and the status is displayed on the HVAC (page 2-2) page. ■ **Disabled** (default) – No high temperature limit is set. ■ **-30°F(-34.5°C) to 200°F(93°C)** This is a major (red) alarm condition.
Present for	Enter how long the condition must be in effect before the alarm is triggered. Note that the default is 0 minutes and the maximum time allowed is 240 minutes.
Alarm generate at	Day and time the alarm was generated.

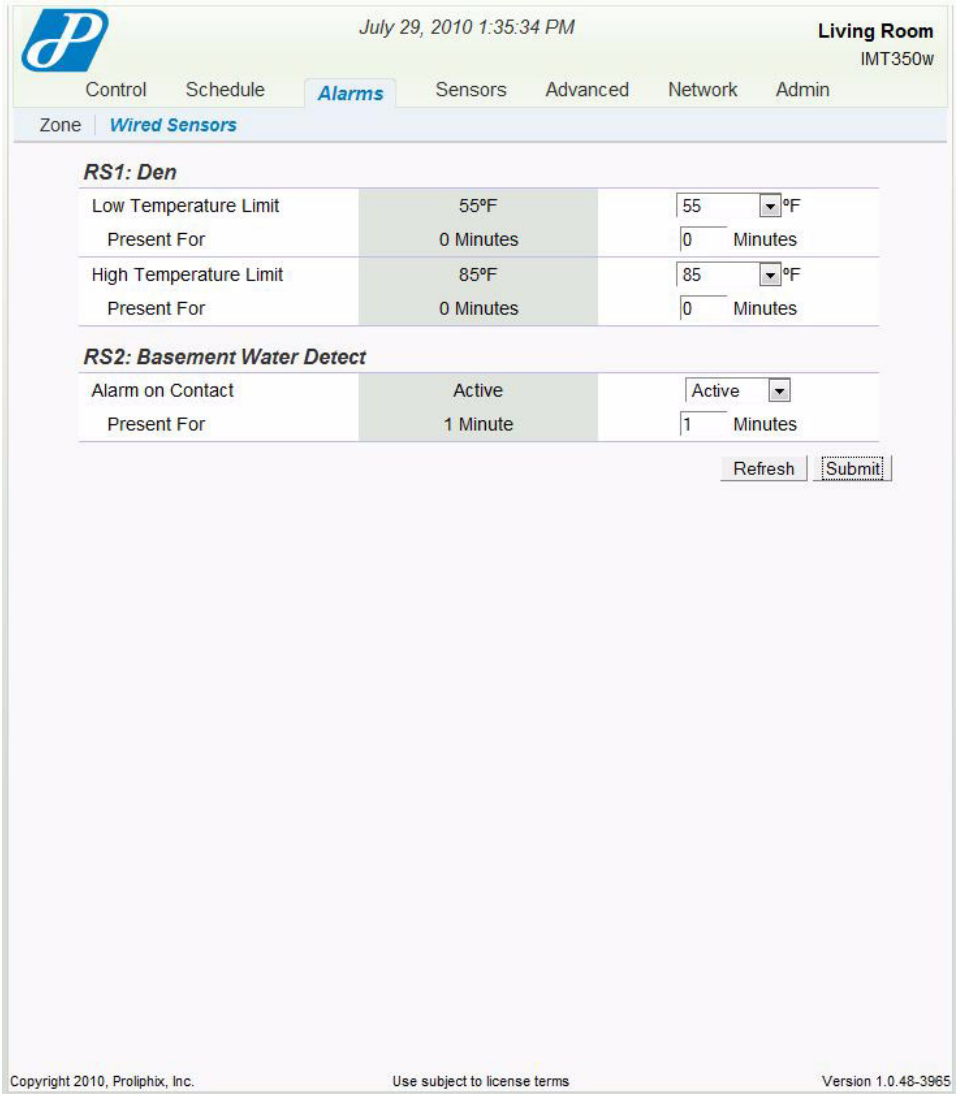
Table 2-4 Alarms - Zone Field Descriptions (Continued)

Field	Description
Zone Humidity Alarms	
Low Humidity Limit	Select a value or **Disabled** to indicate the low humidity threshold detection status. This value is monitored by the thermostat and compared against the current **Relative Humidity**. If the current **Relative Humidity** rises above this value, an alarm condition is set and the status is displayed on the HVAC (page 2-2) page. ■ **Disabled** (default) – No high humidity limit is set. ■ **0%RH to 95%RH** – High Humidity Limit in 5% increments. This is a major (red) alarm condition.
High Humidity Limit	Select a value or **Disabled** to indicate the high humidity threshold detection status. This value is monitored by the thermostat and compared against the current **Relative Humidity**. If the current **Relative Humidity** rises above this value, an alarm condition is set and the status is displayed on the HVAC (page 2-2) page. ■ **Disabled** (default) – No high humidity limit is set. ■ **0%RH to 95%RH** – High Humidity Limit in 5% increments. This is a major (red) alarm condition.
Fan Filter Change	
Fan Filter Change Reminder	Specifies if fan filter change reminder is enabled.
Change Interval (runtime hours)	Select an interval in hours to remind you that the HVAC system requires maintenance. This feature allows you to set time intervals between changing and/or cleaning the HVAC air filter. If enabled, an alarm condition is set after the pre-set interval has expired, and is displayed on the HVAC (page 2-2) page. This is a minor (yellow) alarm condition.
Usage to Date	Displays a running tally of hours and minutes which have elapsed since the previous **Last Replaced** date. If this value is greater than the preset hours, it is displayed in red and an alarm is generated indicating that the **Change Interval** has expired.
Last Replaced	Displays the date and time the **Filter replaced** box was checked and restarts the interval set within the **Change Interval** field.

Wired Sensors

The **Alarms - Wired Sensors** page displays if any of the three remote sensors are configured.

Figure 2-12 Alarms - Wired Sensors Page



Use Table 2-5 to configure the **Alarms - Wired Sensors** page fields.

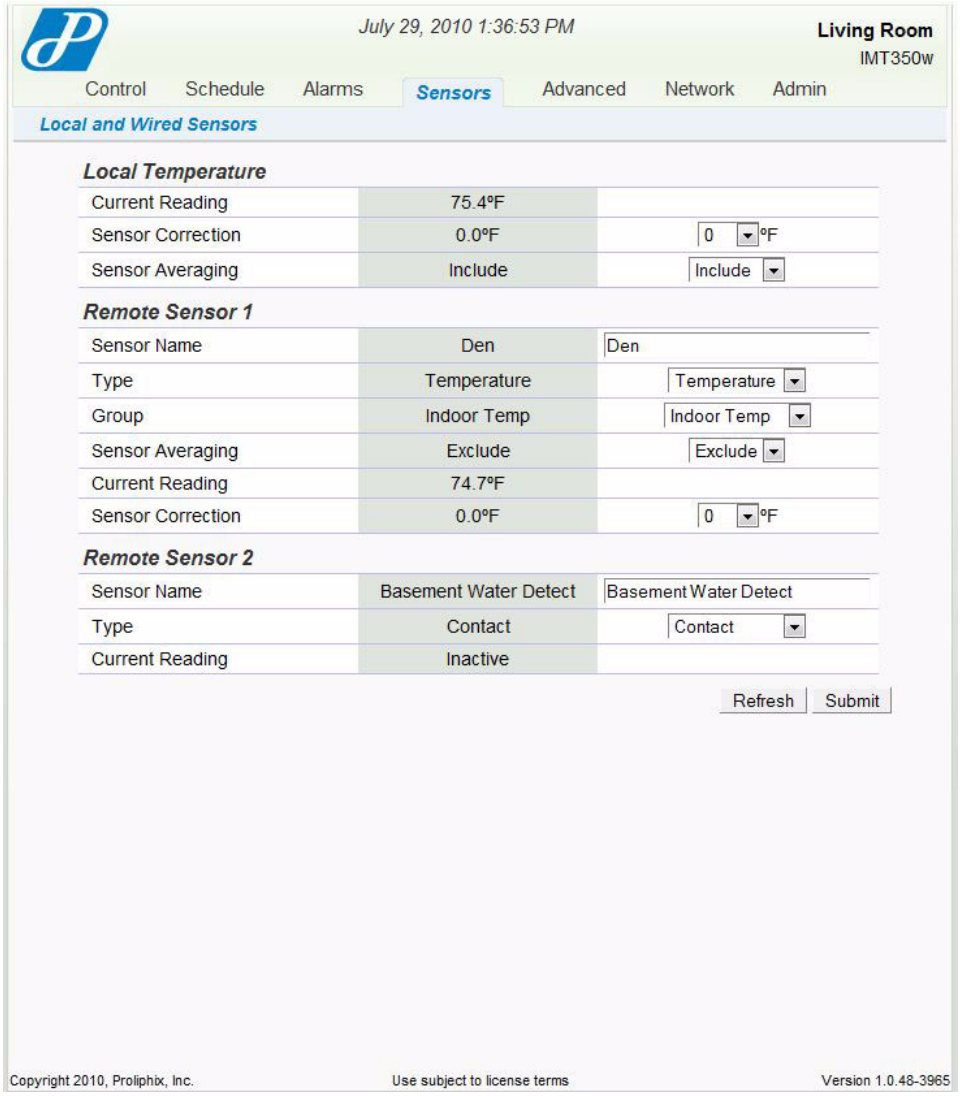
Table 2-5 Alarms - Wired Sensors Field Descriptions

Field	Description
RS1 and RS2	
Low Temperature Limit	Select a value or **Disabled** to indicate the low temperature threshold detection status. The value set by this parameter is monitored by the thermostat and compared against the current **Zone Temperature**. If the current **Zone Temperature** falls below this value, an alarm condition is set and the status is displayed on the HVAC (page 2-2) page. ■ **Disabled** (default) – No low temperature limit is set. ■ **-30°F(-34.5°C) to 200°F(93°C)** This is a major (red) alarm condition.
Present for	Enter how long the condition must be in effect before the alarm is triggered. Note that the default is 0 minutes and the maximum time allowed is 240 minutes.
High Temperature Limit	Select a value or **Disabled** to indicate the high temperature threshold detection status. The value set by this parameter is monitored by the thermostat and compared against the current **Zone Temperature**. If the current **Zone Temperature** rises above this value, an alarm condition is set and the status is displayed on the HVAC (page 2-2) page. ■ **Disabled** (default) – No high temperature limit is set. ■ **-30°F(-34.5°C) to 200°F(93°C)** This is a major (red) alarm condition.
Present for	Enter how long the condition must be in effect before the alarm is triggered. Note that the default is 0 minutes and the maximum time allowed is 240 minutes.

Sensors Page

The **Sensors** page displays the local temperature and remote sensor name/type.

Figure 2-13 Sensors Page



Use Table 2-6 to complete the **Sensors** page fields.

Table 2-6 Sensors Field Descriptions

Field	Description
Local Temperature	
Current Reading	Displays the current local temperature.

Table 2-6 Sensors Field Descriptions (Continued)

Field	Description
Sensor Correction	Indicate the calibration or temperature offset compensation for this remote thermal sensor. Offset adjustments are added or subtracted from the actual temperature read from this sensor and displayed as the apparent temperature. **-10°F (-5.5 °C) through +10°F (5.5C)** The default is **0**.
Sensor Averaging	Specifies to include sensor averaging.
Remote Sensor 1 and 2	
Sensor Name	Displays the Name (15 characters) for the external thermal sensor #1 and #2. **RS1 / RS2** The default is **RS1/ RS2**.
Type	Select the remote sensor type: thermistor or contact to determine whether or not a temperature sensor or dry contact closure source is connected to this sensor. **(Consult the Proliphix web site for a list of sensors available in either type.)** ■ **Thermistor** – Thermistor-based thermal sensors. ■ **Contact** – Contact-based connections. The Contact closure option can be used to sense if a door is open or closed for greater than the number of minutes set on the **Alarms** page and then notify you via an alert e-mail. For example, this option is often used in food service applications but can be used for any situation where you need to monitor a **Contact** closure. ■ **Unconfigured** (default)
Group	Specifies if the sensor is assigned to **Indoor Temp** or **Outdoor Temp**. Note: If one ore more of the remote sensors are configured as within the Outdoor Temp group, only the first (that is, RS1 then RS2, in that order) are displayed on the thermsotat's LCD screen.
Current Reading	Displays the current local temperature.
Sensor Correction	Indicate the calibration or temperature offset compensation for this remote thermal sensor. Offset adjustments are added or subtracted from the actual temperature read from this sensor and displayed as the apparent temperature. **-10°F (-5.5 °C) through +10°F (5.5C)** The default is **0**.

Advanced Page

The **Advanced** page displays tabs for the General Settings and Override Settings pages.

HVAC Settings

The **Advanced - General Settings** page displays the HVAC system information.

Figure 2-14 Advanced - General Settings Page - Fuel Burner

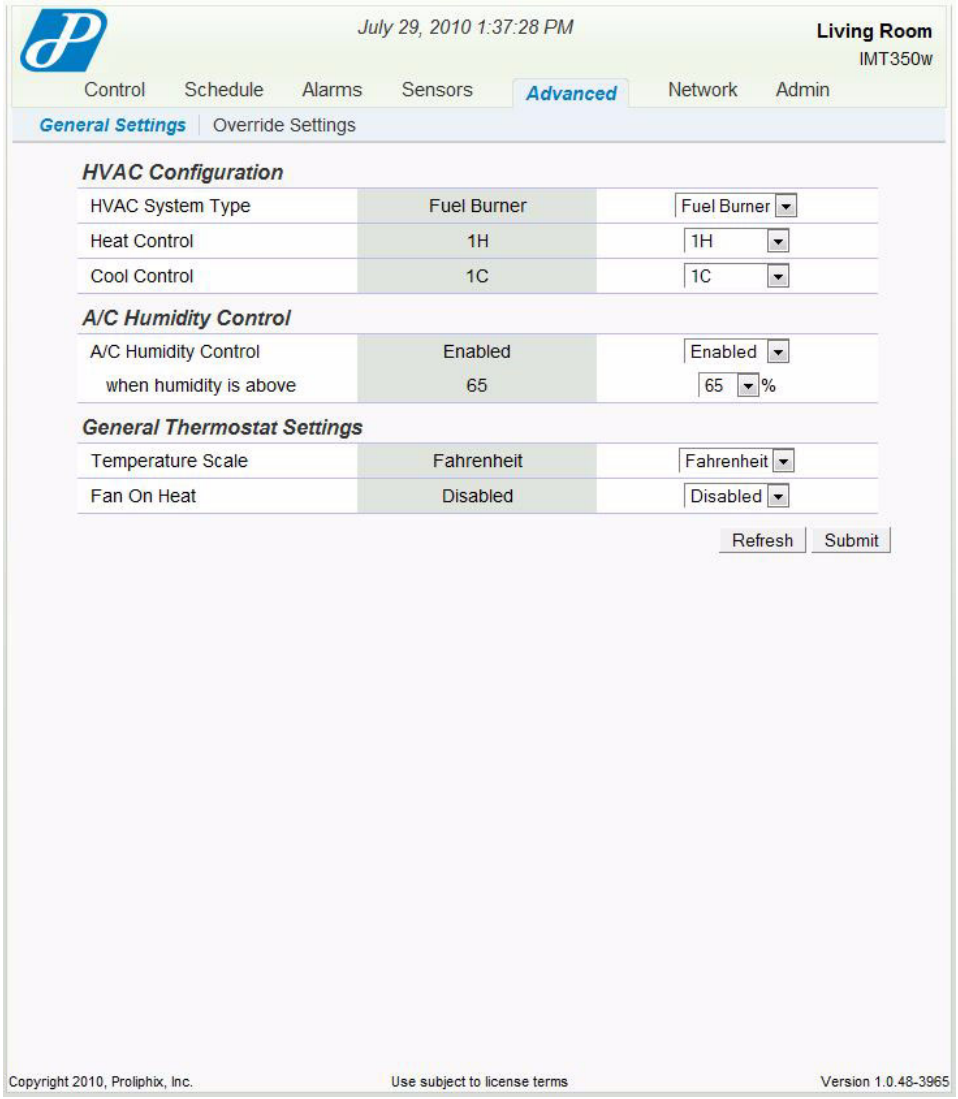
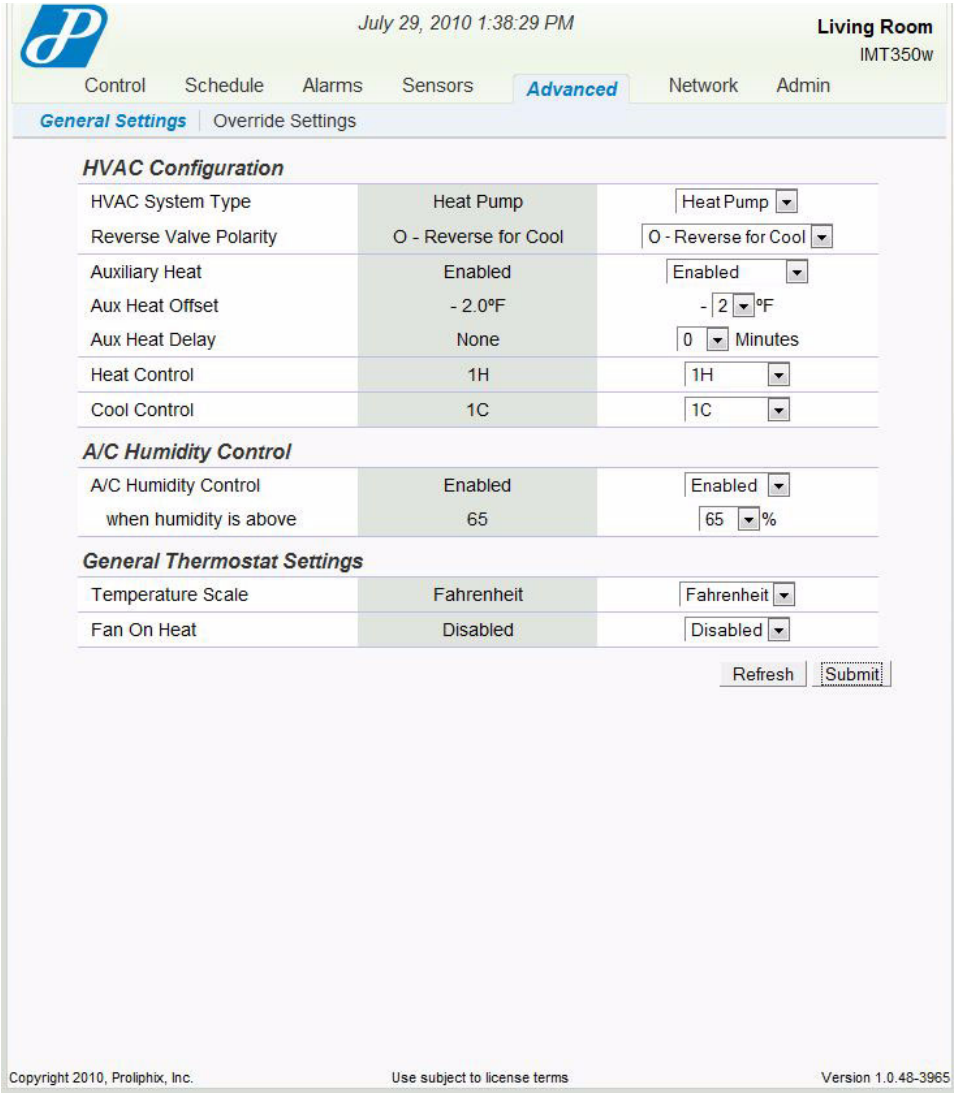


Figure 2-15 Advanced - General Settings Page - Heat Pump



Use Table 2-7 to configure the **Advanced Settings** fields.

Table 2-7 Advanced Settings Fields - HVAC Field Descriptions

Field	Description
HVAC System Type	Select the type of HVAC system, either **Fuel Burner** (default) or **Heat Pump** HVAC systems as follows: ■ **Fuel Burner** (default) – The HVAC system burns fossil fuels (e.g. gas or oil). Typically the system includes either an oil or gas fired boiler or furnace. See Figure 2-14 on page 2-24 and continue with If Your HVAC System is a Fuel Burner (page 2-26). ■ **Heat Pump** – Specifies that the HVAC system is based on an electric compressor. See Figure 2-15 on page 2-25 and continue with If Your HVAC System is a Heat Pump (page 2-26).
If Your HVAC System is a Fuel Burner	
Heat Control	Select the HVAC control for this thermostat. This parameter describes the thermostat capability to control a single stage or dual stage heating system. The thermostat can also be disabled from controlling a heating system and instead operate as a cool-only thermostat. ■ **Disable** – No heating system exists. (A/C only thermostat.) ■ **1H** – Enables the heating system as a standard single stage system.
Cool Control	Specify the HVAC control of this thermostat. This parameter describes the thermostat's capability to control a single stage or dual stage cooling system. The thermostat can also be disabled from controlling a cooling system and instead operate as a heat-only thermostat. (See Heat Control (page 2-26).) ■ **Disable** – Specifies that there is no cooling system present. (heat-only thermostat.) ■ **1C** – Enables the cooling system as a standard single stage system.
If Your HVAC System is a Heat Pump	
Reverse Valve Polarity	Enables you to control the direction of the heating and cooling modes. ■ **O - Reverse for Cool** – Indicates that the heat pump normally runs in heat mode and when the reversing valve is activated then the heat pump will run in cooling mode. ■ **B - Reverse for Heat** – Indicates that the heat pump normally runs in cool mode and when the reversing valve is activated then the heat pump will run in heating mode.

Table 2-7 Advanced Settings Fields - HVAC Field Descriptions (Continued)

Field	Description
Auxiliary Heat	Specifies a secondary source of heat outside the heat pump system, for example, electric baseboard or a gas furnace. Note: In a dual stage heat pump, Auxilliary Heat is available only after the 2nd stage is active. ■ **Disabled** – Disables Auxiliary Heat. ■ **Enabled** – Auxilliary Heat can be used while the heat pump compressor is active. ■ **Enabled without Compressor** – Disables the compressor when Auxiliary Heat is active.
Aux Heat Offset	Specifies the setting in degrees that the air temperature has to be below the zone temperature to activate the Aux Heat source. The default value is -2F, for example if the heat setpoint is 70F and the air temperature drops below 68F the Aux Heat source will be turned on. The range is from -6 to 0.
Aux Heat Delay	Specifies the delay between the active heat pump cycle and activation of the Auxiliary Heat source.
Heat Control	Specifies the HVAC control of this thermostat. This parameter describes the thermostat's capability to control a heat pump system. The thermostat can also be disabled from controlling a heating system and instead operate as a cool-only thermostat. ■ **Disabled** – Specifies that there is no heating system present. (A/C only thermostat.) ■ **1H** – Enables the heat pump as a standard single stage heating system.
Cool Control	Specifies the HVAC control of this thermostat. This parameter describes the thermostat's capability to control a heat pump system. The thermostat can also be disabled from controlling a cooling system and instead operate as a heat-only thermostat. ■ **Disable** – Specifies that there is no cooling system present. (Heat only thermostat.) ■ **1C** – Enables the heat pump as a standard single stage cooling system.

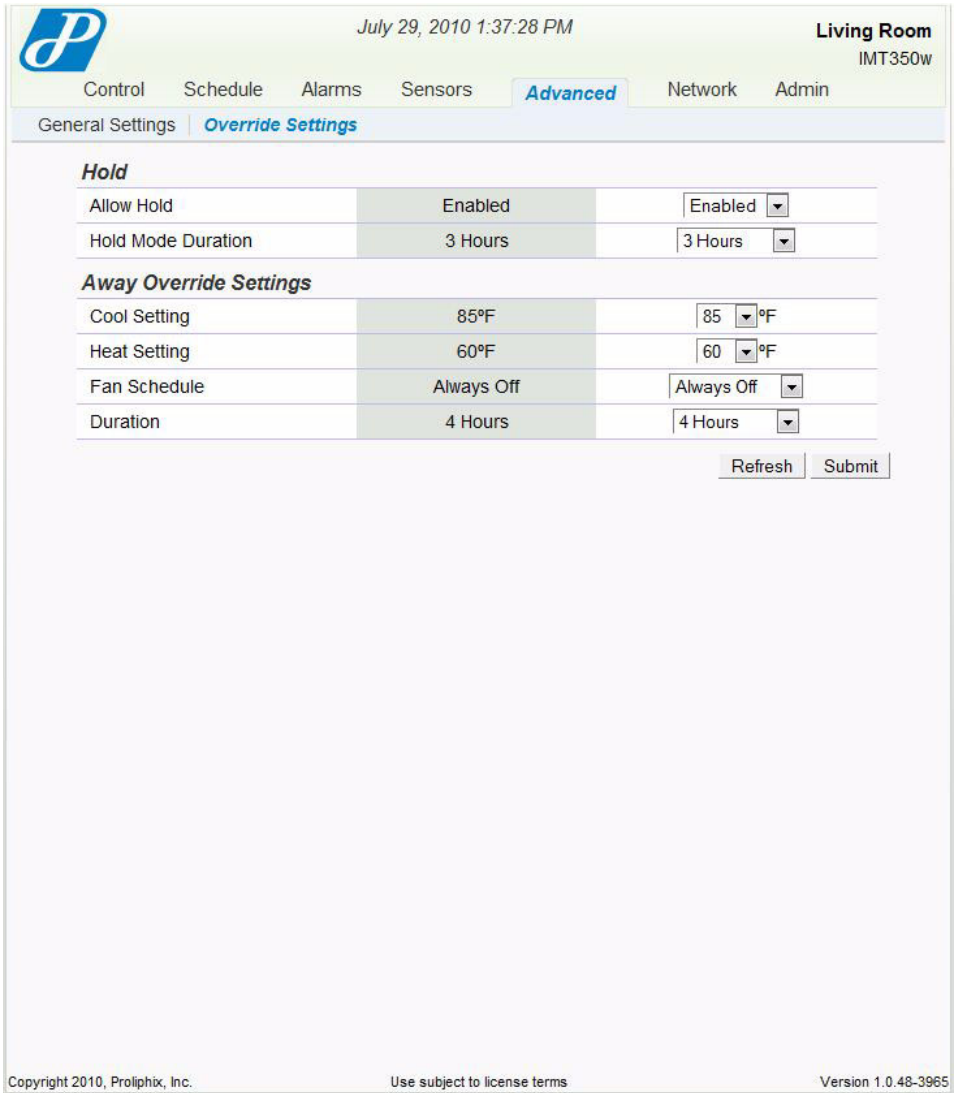
Table 2-7 Advanced Settings Fields - HVAC Field Descriptions (Continued)

Field	Description
A/C Humidity Control	
A/C Humidity Control	Select a relative humidity value from 10% to 90%. when **Enabled**. When the measured RH rises above a preset threshold, the HVAC cooling cycle is initiated. The cycle continues until the humidity level falls 5% below the trigger level or until a heat setpoint is encountered. When a heat setpoint is encountered, the HVAC heating cycle is invoked. After the heat setpoint has been satisfied, the HVAC cooling cycle (to satisfy humidity requirements) is delayed for 5 minutes. Humidity control is intended for moderate moisture control. High humidity environments should also include secondary dehumidification equipment. ■ **Disabled** – This feature is disabled and the A/C system may not be used to reduce humidity. ■ **Enabled** – 10% – 90% - Humidity threshold expressed in 5% increments.
General Thermostat Settings	
Temperature Scale	Select either the Fahrenheit or Celsius temperature scales. ■ **Fahrenheit** (default) – All thermostat temperature readings and reporting are displayed in the Fahrenheit temperature scale (°F). ■ **Celsius** – All thermostat temperature readings and reporting are displayed in the Celsius temperature scale (°C).
Fan on Heat	Controls the fan state during heating cycles. In most HVAC applications the hvac system will wait for the air to warm up before turning on the fan to circulated the air and the thermostat does not energize the fan (G) relay. There are some systems with independent heat sources like electric coils in ducts that rely on the thermostat to turn on the fan to circulate the air. In this case you would need to enabel "Fan on Heat." ■ **Enabled** – The fan is forced ‘on’ during heat cycles. ■ **Disabled** – The fan is ***not*** forced on during heat cycles.

Override Settings

The **Advanced - Override Settings** page displays the override cool and heat settings, for example.

Figure 2-16 Advanced - Override Settings Page



Use Table 2-8 to configure the **Override Settings** fields.

Table 2-8 Advanced - Override Settings Field Descriptions

Field	Description
Hold	
Allow Hold	Indicates if thermostat temperature setting are held independent of schedule changes due to **Event** or **Daily Profiles** advancements. ■ **Enabled** - Allow the temperature settings to be held for the duration shown below. ■ **Disabled** - Do not allow the temperature settings to be held.
Hold Mode Duration	Specifies the time interval in which the thermostat temperature setting are held independent of schedule changes due to **Event** or **Daily Profile** advancements. ■ **Perm** – The **Hold** period is indefinite and the temperature setting are "held" until the user removes this condition. ■ **1, 2, 3, 8, 12, 24 Hrs** –The amount of time in hours in which the current temperature setting are "held" and inhibited from change. The default interval is **3 Hrs**. **Note:** These durations are observed across **Event** boundaries.
Away Override Settings	
Cool Setting	Displays the cool setpoint to be used while Away is active. **40°F(4.5°C) to 110°F(43.5°C)**
Heat Setting	Displays the current temperature programmed for the heating system. **40°F(4.5°C) to 110°F(43.5°C)**
Fan Schedule	Specifies the time in minutes of each hour of the **Event** in which the fan will be **On**. The schedule begins on the hour and advances for the duration specified. Note that within the hour of each **Event** but outside the schedule interval, the fan behaves the same as AUTO mode to ensure proper operation for either a heating or cooling call to the HVAC system. Select one of the following options: ■ **Always Off** ■ **5 On / 15 Off** ■ **10 On / 10 Off** ■ **15 On / 5 Off** ■ **Always On**

Table 2-8 Advanced - Override Settings Field Descriptions (Continued)

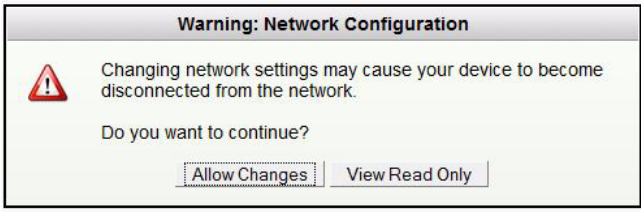
Field	Description
Duration	Specifies the time interval in which the thermostat temperature setting are held independent of schedule changes due to **Event** or **Daily Profile** advancements. ■ **Until** – The **Away** period is indefinite and the temperature setting are "held" until the user removes this condition. ■ **2, 4, 8, 12 hrs, 1, 2, 3, 4, 5, 6, 7 days, 2, 3 weeks** –The amount of time in which the current temperature setting are set as "Away" and inhibited from change. ■ **Cancel -** Cancel "Away".

Network Page

The **Network** page displays tabs for the General, Remote Access, Notification Settings, and Statistics pages.

Figure 2-17 displays when you access the **Network** page.

Figure 2-17 Network - Warning: Network Configuration

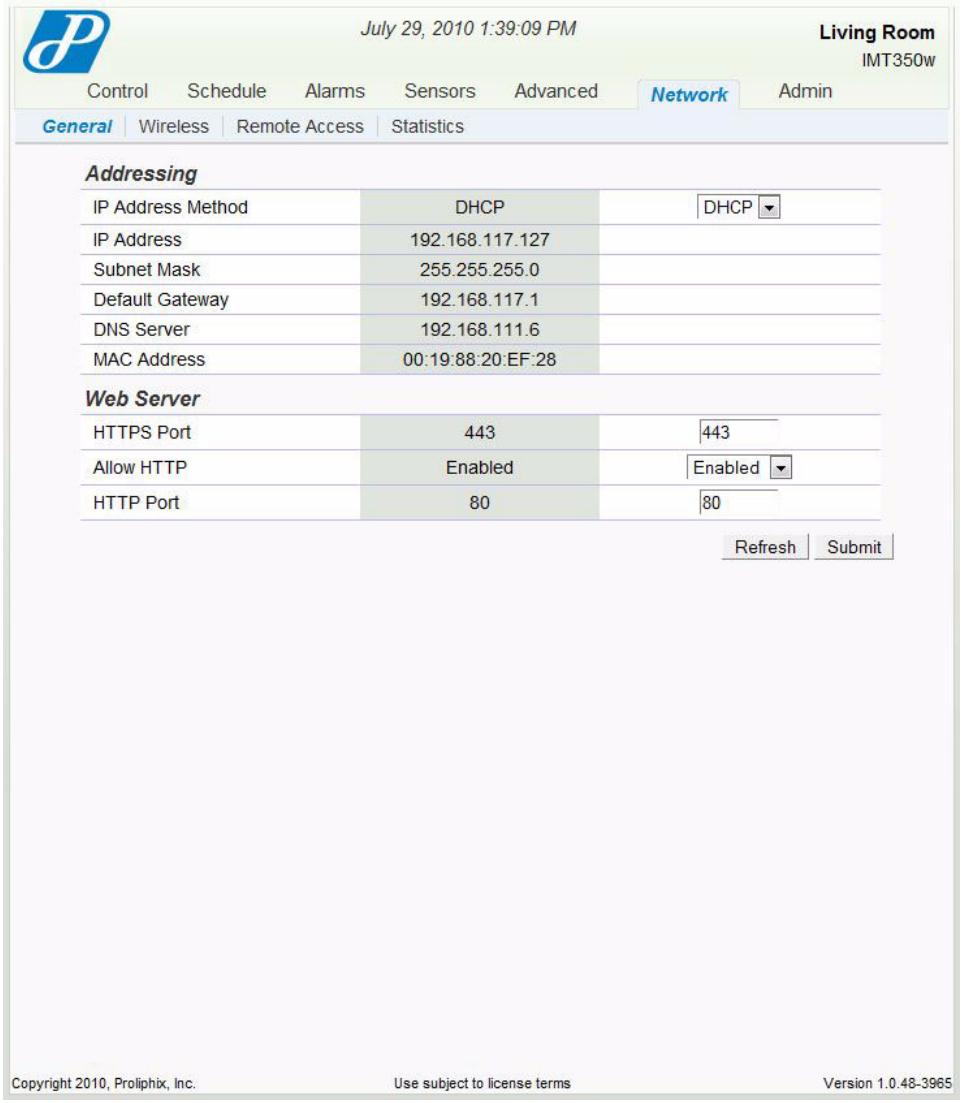

Warning: Network Configuration
Changing network settings may cause your device to become disconnected from the network.
Do you want to continue?
Allow Changes
View Read Only

To configure the **Network** page or view as read only, click the appropriate button.

General

The **Network - General** page displays IP address, firewall, and web server information.

Figure 2-18 Network - General Page



Use Table 2-9 to configure the **General** fields.

Table 2-9 Network - General Field Descriptions

Field	Description
IP Addressing	
IP Address Method	Select the method by which the thermostat receives the unique Internet Protocol address for the local network. IP addressing can be either automatically assigned via a local DHCP server or manually (**Static**) assigned by the user. ■ **DHCP** (default) – IP addressing method is DHCP assigned. ■ **Static** – IP address is manually assigned by the user.

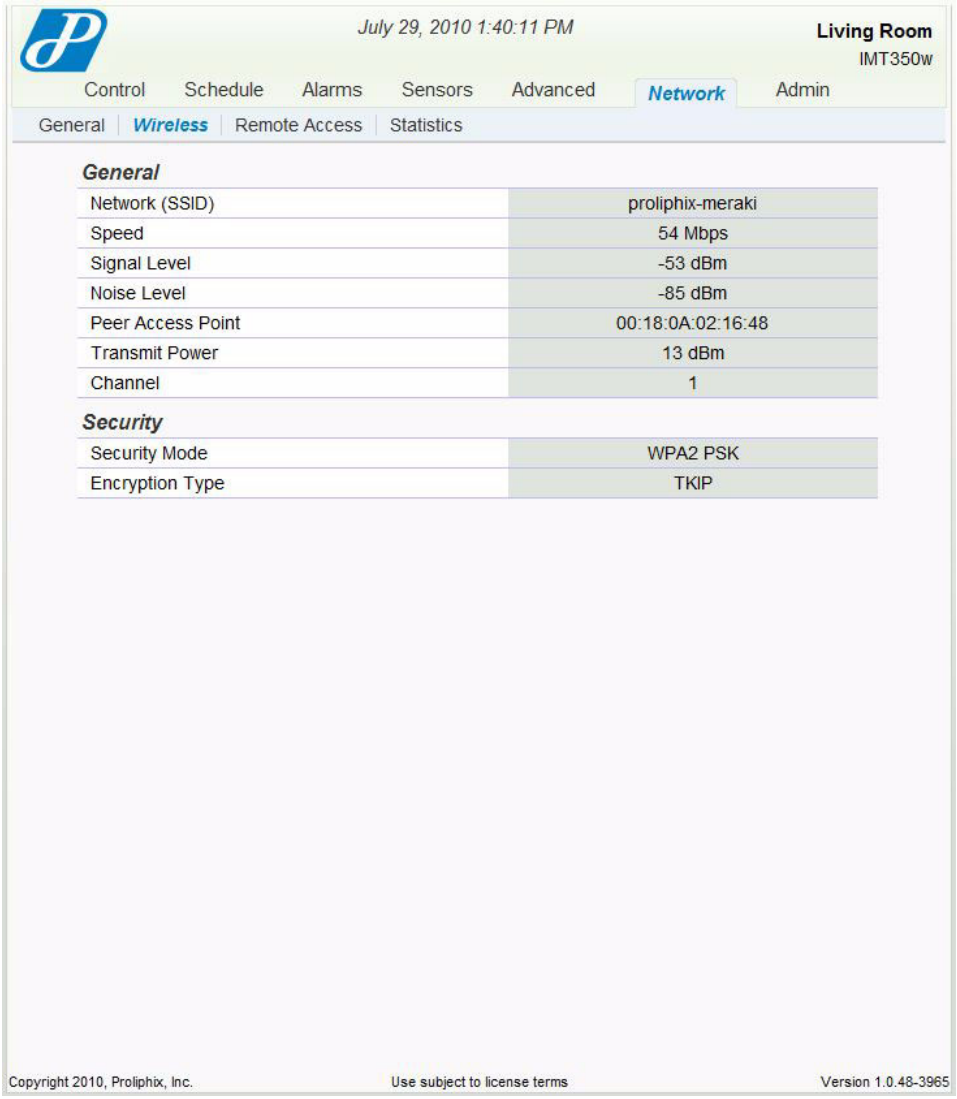
Table 2-9 Network - General Field Descriptions (Continued)

Field	Description
IP Address	Displays the unique Internet Protocol address either assigned statically or by DHCP. (See IP Address Method.) (You must click **Submit** after changing this parameter to invoke a software reset to set the new value.) **A.B.C.D** – Four field standard dot notation for IP address designation.
Subnet Mask	Displays the IP subnet on which the thermostat IP address is assigned.
Default Gateway	Displays the IP address of the router which acts as a gateway for the thermostats to communicate to other devices in another subnet.
DNS Server	Displays the IP address of the Domain Name Server.
MAC Address	Displays a factory assigned value installed in the thermostat which uniquely identifies the thermostat on the local network for transmitting and receiving network information. The system displays the MAC address in the format of 00:19:88:AB:CD:EF for IMT350w and 00:11:49:AB:CD:EF for IMT350c, where AB:CD:EF is a unique value for each thermostat.
Web Server	
HTTPS Port	Enter the IP port number of the Web server within the thermostat. **xyz** – Four digit (max) standard IP port number designation for HTTP access. The default port number is **443**.
Allow HTTP	■ **Disabled** ■ **Enabled**
HTTP Port	The default is port **80**.

Wireless

The **Network - Wireless** page displays the remote access information.

Figure 2-19 Network - Wireless Page



Use Table 2-10 to configure the **Wireless** fields.

Table 2-10 Network - Wireless Field Descriptions

Field	Description
General	
Network (SSID) (Service Set IDentifier)	Specifies the name of the wireless network that is configured in the wireless router/Access Point (AP). This is the network to which the IMT is connected.

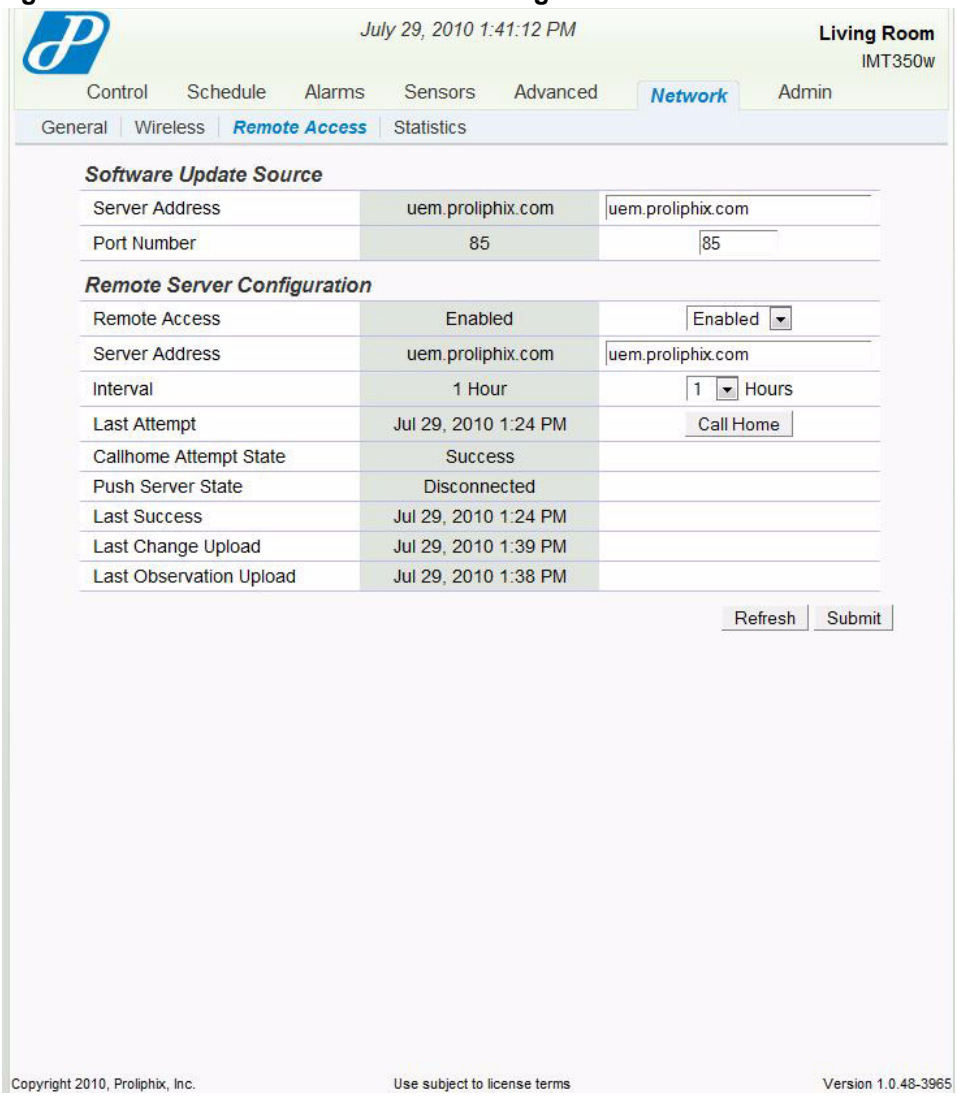
Table 2-10 Network - Wireless Field Descriptions (Continued)

Field	Description
Speed	Specifies the speed of the wireless connection that is negotiated between the IMT and the wireless Access Point.
Signal Level	Displays the signal strength of the wireless connection in dBm. -40dBm is a strong signal while -100dBm is a very weak signal
Noise Level	Indicates the amount of electrical activity in the 2.4Ghz band, this can include activity from microwave ovens, other wireless network and wireless devices like portable phones and keyboards. Values greater than -80dBm (-79 to -10) are considered noisy environments and may show connectivity issues.
Peer Access Point	Displays the MAC address of the Access Point that the thermostat is connected to. IT departments can use this to verify the IMT is connected to the desired AP.
Transmit Power	Displays the value of how strong the current signal is on the wireless chipset on the IMT. Note: This can not be modified by the user.
Channel	Displays the value of the wireless channel the IMT is using to communicate to the Access Point. The range is from 1-13.
Security	
Security Mode	Determined by the wireless settings on the wireless Access Point.
Encryption Type	Determined by the settings on the wireless Access Point.

Remote Access

The **Network - Remote Access** page displays the remote access information.

Figure 2-20 Network - Remote Access Page



Use Table 2-11 to configure the **Remote Access** fields.

Table 2-11 Network - Remote Access Field Descriptions

Field	Description
Software Update Source	
Server Address	Enter the IP address of the Remote Server for software updates. Note that this field is pre-configured at the factory with uem.proliphix.com.

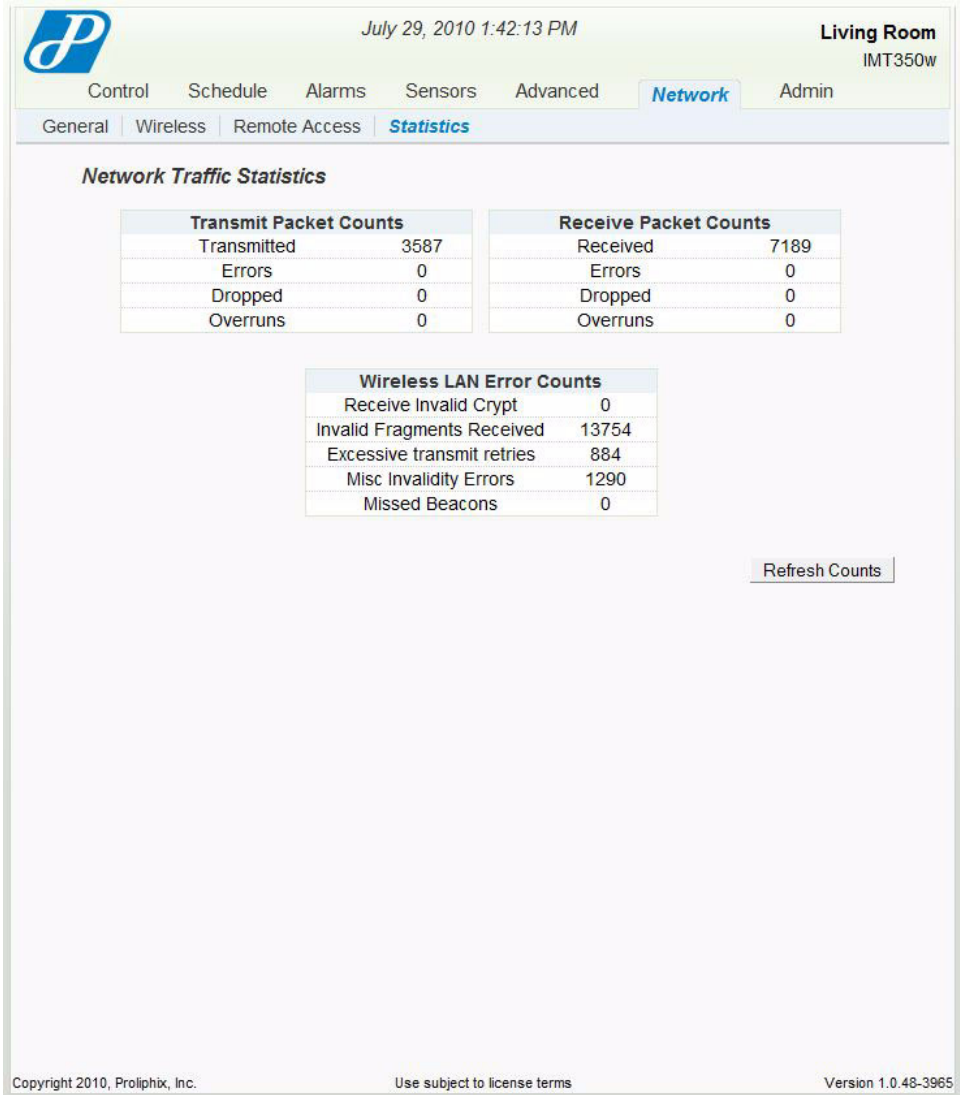
Table 2-11 Network - Remote Access Field Descriptions (Continued)

Field	Description
Port Number	Enter the outgoing IP port number which is used to communicate to the remote server. ***This field is pre-configured at the factory with the IP port number of the Proliphix Web Server.*** *Do not change this value.* **85** – (default) Port number of the remote server.
Remote Server Configuration	
Remote Access	Controls whether the Remote Server service is enabled. Remote access is the term used to describe the management and control of the thermostat from networks outside the local subnet on which the thermostat resides. Remote access provides the thermostat with the ability to be controlled from across the Internet (with the Proliphix UEM). ■ **Disabled** (default) – Remote Server function is disabled. ■ **Enabled** – The thermostat is enabled to participate with the Proliphix UEM server.
Server Address	Displays the IP address or DNS name of the remote server.
Interval	Specifies the frequency of thermostat "calling home" to the Proliphix server.
Last Attempt	Clicking **Call Home** forces the intercommunication between the thermostat and the remote server. ■ **mm.dd.yyyy** – Date of last attempt to access the remote server. ■ **hh.mm.ss** – Time since last attempt to access the remote server.
Callhome Attempt State	Displays the status (**Success** or **Fail**) of last attempt to initiate the communication to the remote server.
Push Server State	
Last Success	Displays the date and time of last successful communication with the remote server.
Last Change Upload	Displays the date and time the last change was made to the thermostat configuration.
Last Observation Upload	Displays the date and time of the last upload of historical data to the UEM server.

Statistics

The **Network - Statistics** page displays the network traffic information.

Figure 2-21 Network - Statistics Page



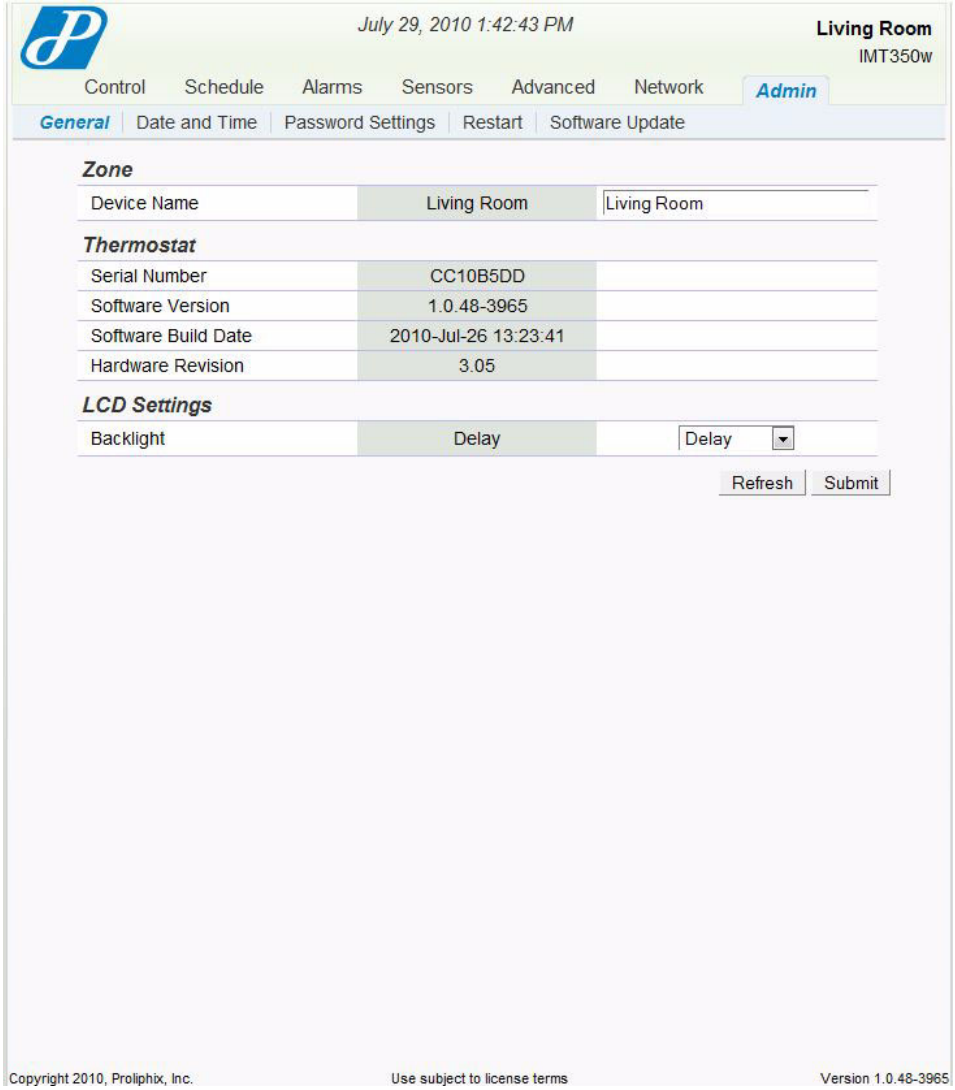
Admin Page

The **Admin** page displays tabs for the General, Date and Time, Password Settings, Restart, and Software Update pages.

General

The **Admin - General** page displays the device name, serial number, LCD information, for example.

Figure 2-22 Admin - General Page



Use Table 2-12 to configure the **General** fields.

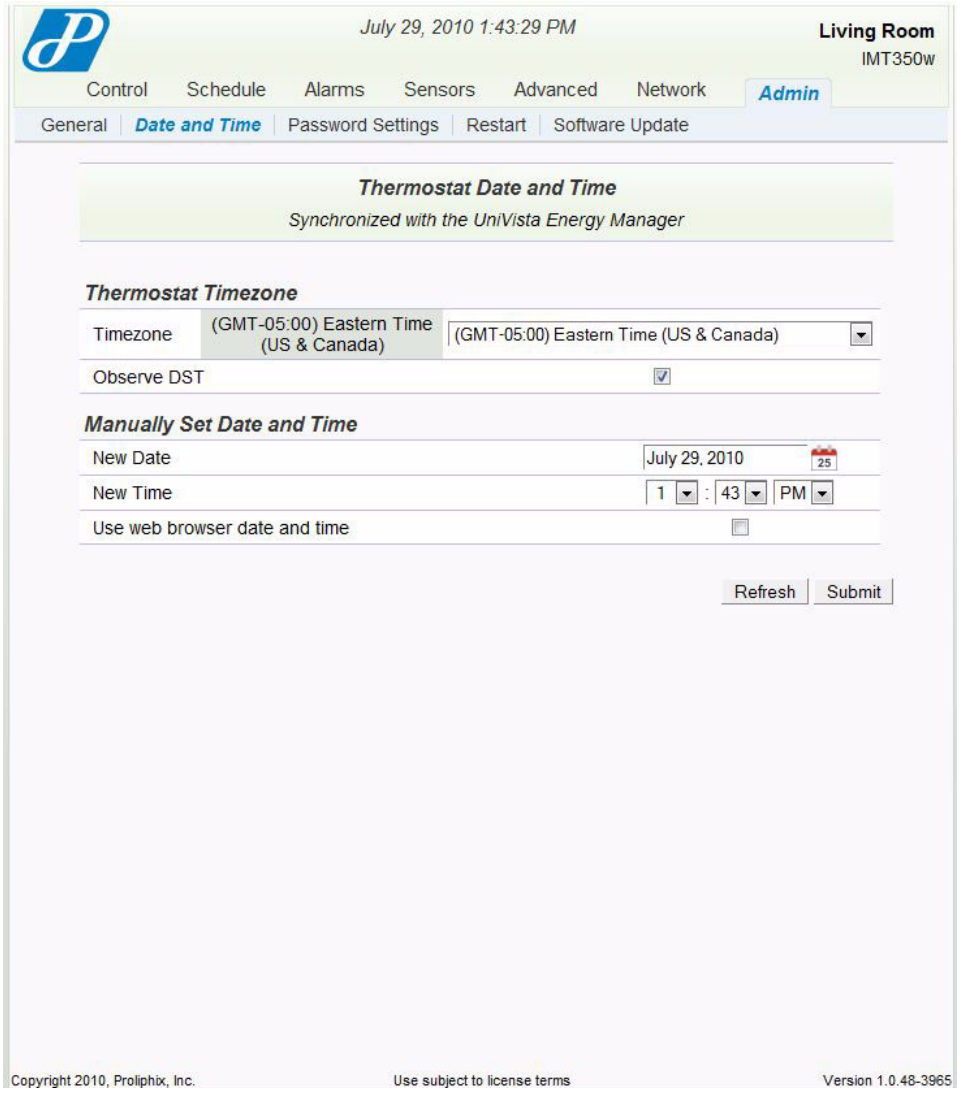
Table 2-12 Admin - General Field Descriptions

Field	Description
Zone	
Device Name	Enter a unique 15 character identifier for the thermostat. You can use the thermostat location in this field (i.e. Main Lobby). This identifier is known as the host name within the data network.
Thermostat	
Serial Number	Displays an eight digit alpha-numeric thermostat serial number (e.g. 8438F399).
Software Version	Displays the current software version.
Software Build Date	Displays the date and time the current version of software.
Hardware Revision	Displays the hardware revision.
LCD Settings	
Backlight	Select the LCD backlight control. ■ **Delay** (default) – The backlight is illuminated when you click a button and remains illuminated for 16 seconds after the last button is clicked. ■ **Always On** – The backlight is enabled. ■ **Always Off** – The backlight is disabled from activation. A low level ambient backlight remains visible.

Date and Time

The **Admin - Set Date and Time** page displays the network time and time zone information.

Figure 2-23 Admin - Date and Time Page



Use Table 2-13 to configure the **Admin - Date and Time** fields.

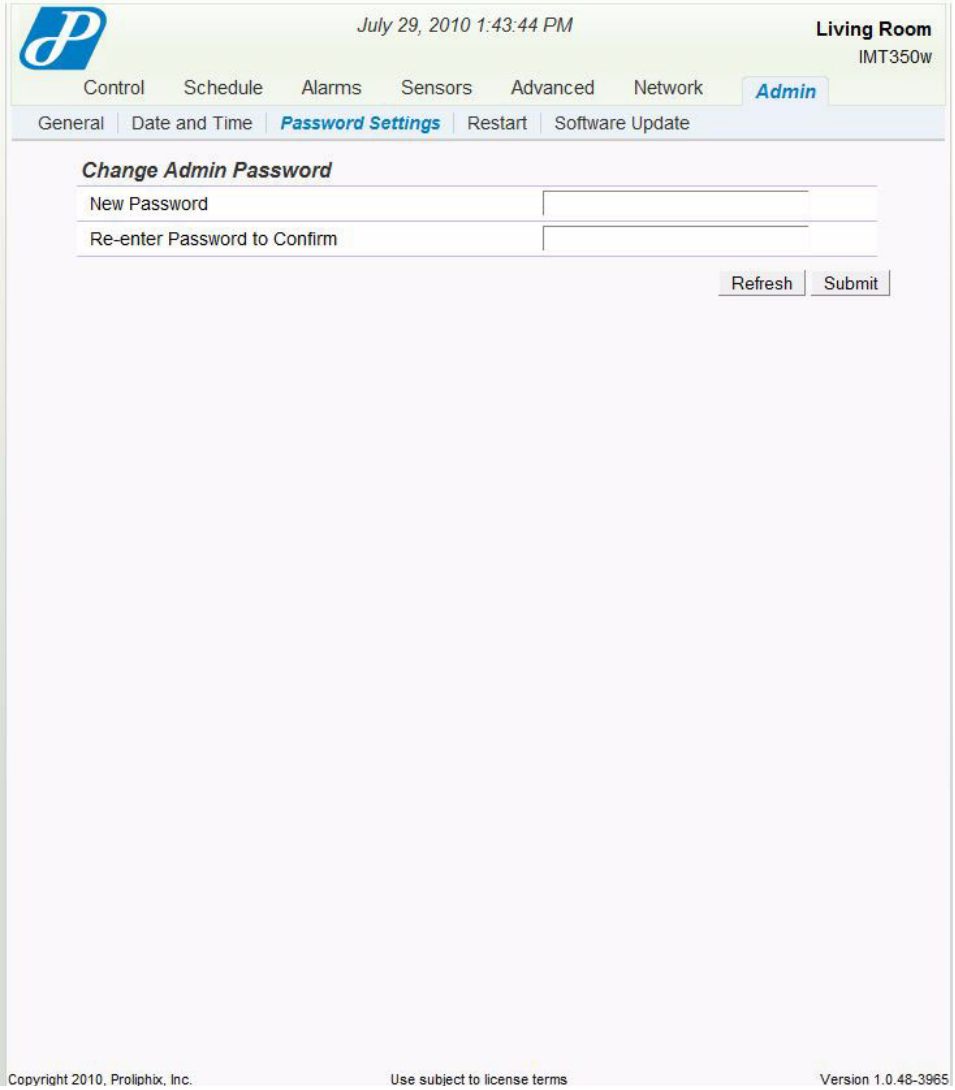
Table 2-13 Admin - Date and Time Field Descriptions

Field	Description
Thermostat Timezone	
Timezone	Displays the current timezone.
Observe DST	Click to adjust the time for Daylight Savings Time.
Manually Set Date and Time	
New Date	Enter a new date.
New Time	Enter a new time.
Use web browser date and time	Click to use configure date and time using browser date and time.

Password Settings

The **Admin - Password Settings** page enables you to modify the Admin password.

Figure 2-24 Admin - Password Settings Page



Use Table 2-14 to configure the **Admin - Password Settings** page.

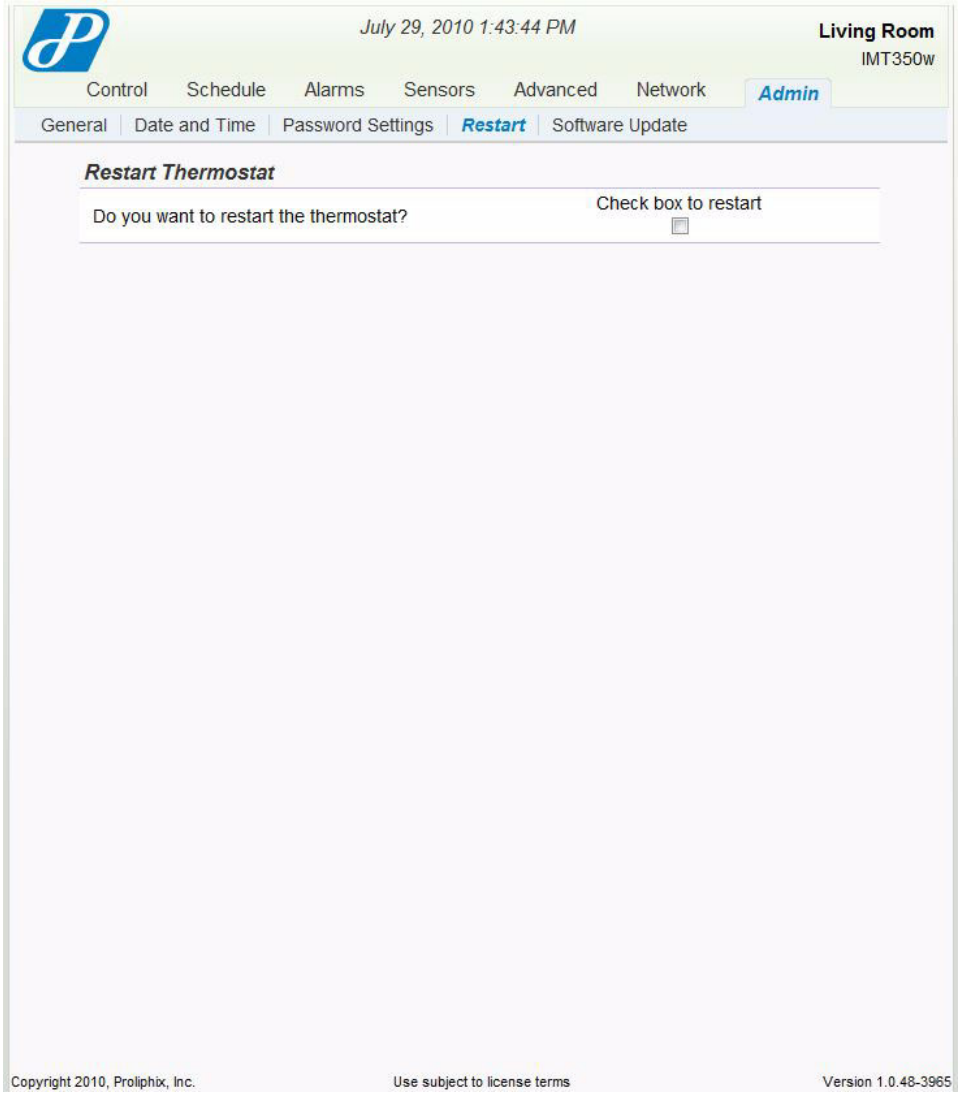
Table 2-14 Admin - Password Settings Field Descriptions

Field	Description
Change Admin Password	
New Password	Enter an alpha-numeric password for the **Administrator** (admin) account. The password is case sensitive and limited to 15 alpha-numeric characters. The default password is **admin**.
Re-enter Password to Confirm	Re-enter your password.

Restart

The **Admin - Restart** page enables you to restart the thermostat.

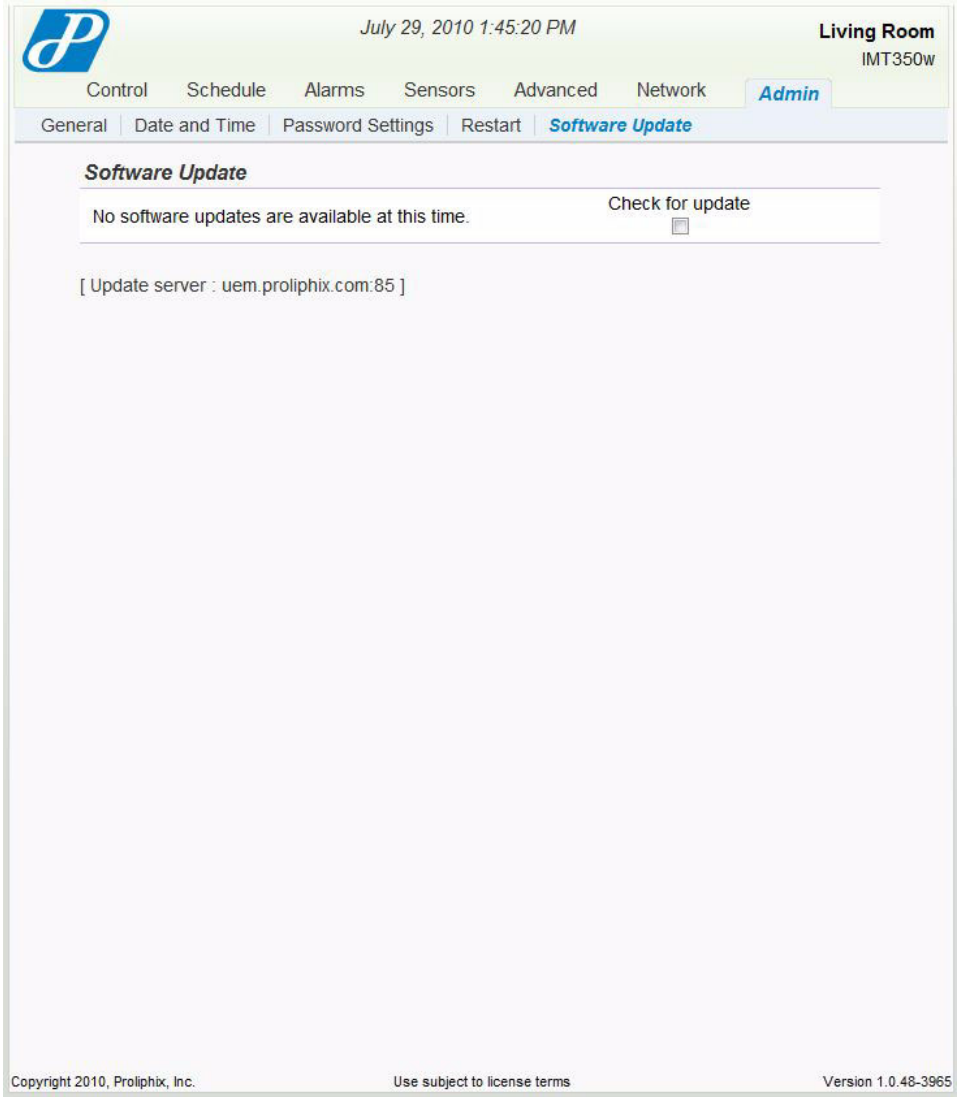
Figure 2-25 Admin - Restart Page



Software Update

The **Admin - Software Update** page enables you to check for and download any updates to the thermostat. Check the box and click **Submit**.

Figure 2-26 Admin - Software Update Page



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